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M. F. Smith

1979-1996

General Index

Catalogue #1229-1418

Journal

1979-1980

New Mexico: Sierra, Socorro,
Valencia Cos.

1981-1982

Calif: Yolo, Place, Calaveras,
San Joaquin, Lassen Cos.

1993

Uruguay: Depto. Maldonado
Argentina: Prov. Rio Negro

1994

Uruguay: Depto. Maldonado
Chile: Prov. Valdivia

1996

Argentina: Prov. Rio Negro

M. F. Smith
1979-1996

Catalogue #1229-1418

1979

CATALOGUE

5 mi. S, 2.7 mi. W Truth or Consequences, 4300', Sierra Co.,New MexicoAug. 29

+skeleton	1229	♀ <u>Thomomys bottae</u>	+tissues	186-50-26-6 = 79gm
+skeleton	1230	♀ <u>Thomomys bottae</u>	+tissues	218-57-30-6 = 170gm
+skeleton	1231	♀ <u>Thomomys bottae</u>	+tissues	222-60-31-6 = 150gm
+skeleton	1232	♀ <u>Thomomys bottae</u>	+tissues	217-55-30-6 = 98gm
+skeleton	1233	♀ <u>Thomomys bottae</u>	+chromosomes +tissues	224-68-31-6 = 124gm
+skeleton	1234	♀ <u>Thomomys bottae</u>	+chromosomes +tissues	218-47 ⁺ -31-6 = X gm

1 mi. N, 1 mi. W San Marcial, 4700 ft., Socorro Co., New MexicoAug. 30

+skeleton	1235	♀ <u>Thomomys bottae</u>	+tissues	205-62-27-6 = 99gm
+skeleton	1236	♀ <u>Thomomys bottae</u>	+tissues	200-55-26-6 = 83gm

San Antonio, 4550 ft., Socorro Co., New MexicoAug. 30

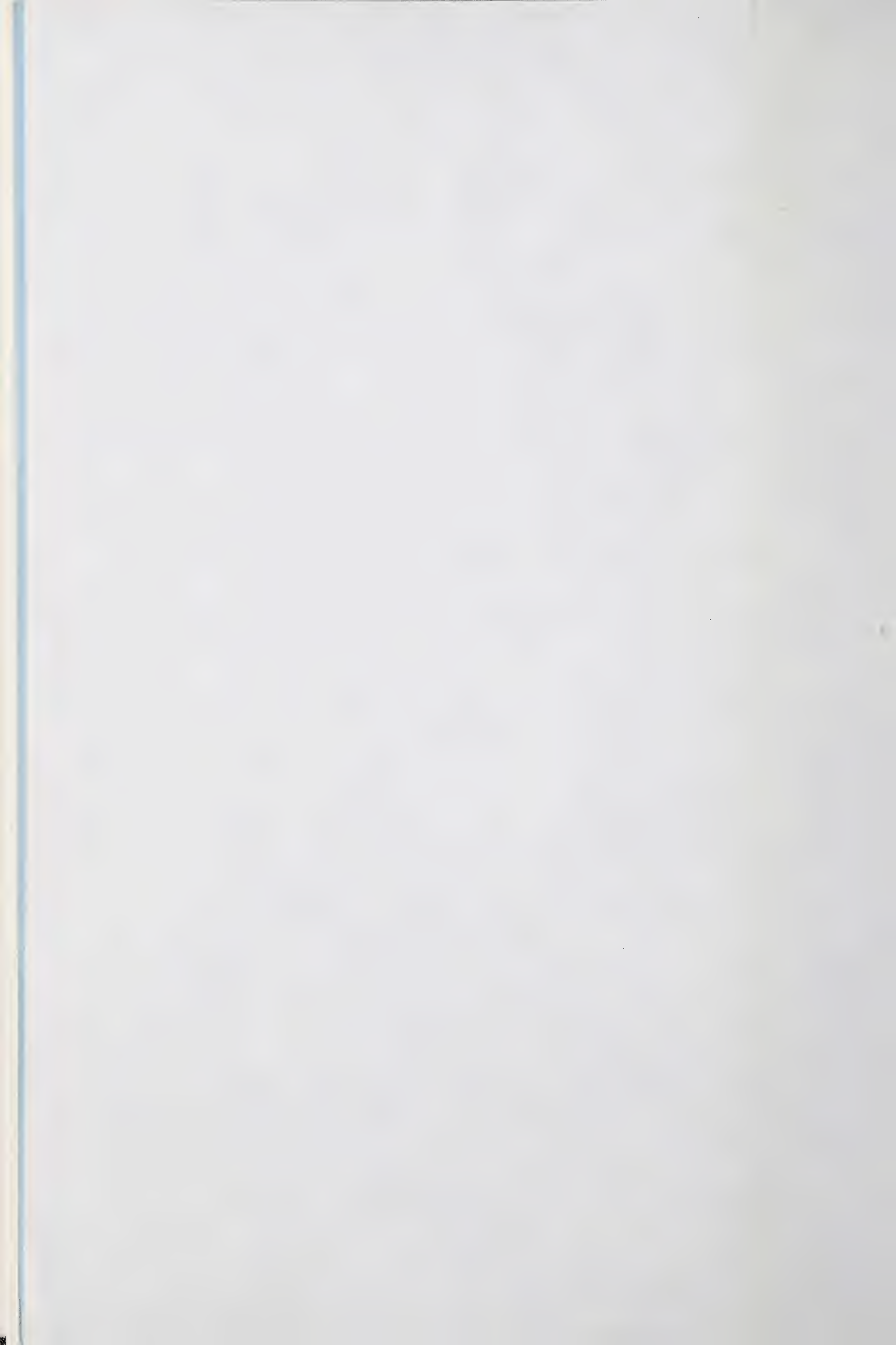
+skeleton	1237	♀ <u>Thomomys bottae</u>	+tissues	235-68-29-7 = 110gm
+skeleton	1238	♀ <u>Thomomys bottae</u>	+tissues	214-45-26-7 = 106gm
+skeleton	1239	♀ <u>Thomomys bottae</u>	+chromosomes +tissues	196-57-27-6 = 70gm

Socorro, 4550 ft., Socorro Co., New MexicoAug. 31

+skeleton	1240	♀ <u>Thomomys bottae</u>	+tissues	216-61-30-6 = 133gm
+skeleton	1241	♂ <u>Thomomys bottae</u>	+tissues	231-64-31-6 = 150gm
+skeleton	1242	♀ <u>Thomomys bottae</u>	+tissues	200-57-29-6 = 95gm
+skeleton	1243	♂ <u>Thomomys bottae</u>	+chromosomes +tissues	225-65-30-6 = 112gm
+skeleton	1244	♀ <u>Thomomys bottae</u>	+chromosomes +tissues	205-57-28-5 = X gm

San Acacia, 4700 ft., Socorro Co., New MexicoAug. 31

+skeleton	1245	♀ <u>Thomomys bottae</u>	+tissues	215-64-32-6 = 110gm
+skeleton	1246	♀ <u>Thomomys bottae</u>	+tissues	197-50-28-6 = X gm



Smith, M.F.
1979

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CATALOGUE

San Acacia, 4700 ft. Socorro Co., New Mexico

Aug. 31

+ skeleton

testes \approx 9 mm, \pm scrotal, tubules not visible

1247

♂ Thomomys bottae

+ tissues

197-53-30-6 = 86 gm

Smith, M.F.
1980

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CATALOGUE

3 mi. S La Joya, 4700', Socorro Co., New Mexico

May 11

1	1248	♀ ^{pelvis open no emb.} <u>Thomomys bottae</u>	+ tissues	213-58-33-6 = 129 gm
2	1249	♀ ^{pelvis open no emb.} <u>Thomomys bottae</u>	+ tissues	228-64-32-7 = 134 gm
dar 3	1250	♀ ^{lactating} <u>Thomomys bottae</u>	+ tissues	224-55-33-7 = 150 gm
cedar 1	1251	♂ ^{testes = 4 mm} <u>Thomomys bottae</u>	+ tissues	203-56-29-6 = 96 gm
d spit 4	1252	<u>Thomomys bottae</u>	+ tissues	215-57-31-6 = 118 gm
d spit 3	1253	<u>Thomomys bottae</u>	+ tissues	231-60-32-6 = 154 gm

May 12

cedar spit 4	1254	♀ ^{nulliparous} <u>Thomomys bottae</u>	+ tissues	200-50-29-6 = 84 gm
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May 11

d spit 5	1255	♂ ^{testes = 15 mm sem. vesicle 6 mm} <u>Thomomys bottae</u>	+ tissues	240-70-38-7 = 210 gm
sand spit 6	1256	♀ ^{nulliparous} <u>Thomomys bottae</u>	+ tissues	200-50-28-6 = 98 gm
sand spit 7	1257	♂ ^{testes = 5 mm} <u>Thomomys bottae</u>	+ tissues	221-60-34-6 = 124 gm
sand spit 8	1258	♀ ^{scars OR-2L} <u>Thomomys bottae</u>	+ tissues + chromosomes	226-74-32-5 = 122 gm
salt cedar 2	1259	♀ ^{scars IR-1L} <u>Thomomys bottae</u>	+ tissues + chromosomes	240-76-32-6 = 132 gm
sand spit 9	1260	♂ ^{testes = 19 mm SV = 10 mm} <u>Thomomys bottae</u>	+ tissues + chromosomes	235-83-35-5 = 184 gm

3.5 mi. S La Joya, west side of Rio Grande, 4700', Socorro Co., New Mexico

May 13

1261	♂ ^{testes = 18 mm SV = 10 mm} <u>Thomomys bottae</u>	+ tissues + chromosomes	255-75-33-6 = 194 gm
1262	<u>Thomomys bottae</u>	+ tissues	
1263	♀ ^{scars IR-2L} <u>Thomomys bottae</u>	+ tissues	220-57-31-6 = 154 gm
skull only 1264	♂ ^{t = 4 mm} <u>Thomomys bottae</u>	+ tissues	213-58-31-6 = 104 gm
1265	♀ ^{pelvis closed; nulliparous} <u>Thomomys bottae</u>	+ tissues	218-55-31-6 = 114 gm
1266	♀ ^{pelvis open, no emb.} <u>Thomomys bottae</u>	+ tissues	231-55-31-6 = 158 gm
skull only 1267	♂ ^{t = 4 mm} <u>Thomomys bottae</u>	+ tissues	210-58-31-5 = 110 gm
1268	♂ ^{scrotal t = 18 mm SV = 10 mm} <u>Thomomys bottae</u>	+ tissues	240-57-32-7 = 198 gm

CATALOGUE

c.a. 4.0 mi. S La Joya, 4700', Socorro Co., New Mexico

May 14

1269 ♂ Thomomys bottae + tissues 240-52-31-6 = 210 gm
scrotal t=16mm SV=7mm

Cebolita Creeke, 16.3 mi. S. Grants, Valencia Co., New Mexico, 6800ft.

17 May 1980

1270 ♂ Thomomys bottae + tissue 254-64-30-5 = 176 gm
pelvis open scars 2R-1L

1271 ♀ Thomomys bottae + tissue 215-57-29-5 = 112 gm

1272 ♂ Thomomys bottae + tissues 234-53-32-5 = 185 gm
scrotal t=19mm SV=9mm

1273 ♂ Thomomys bottae + tissues 235-55-30-5 = 148 gm
scrotal t=19mm SV=5mm

1274 ♀ Thomomys bottae + tissues 194-53-28-5 = 70 gm
skull only pelvis closed nulliparous

1275 ♀ Thomomys bottae + tissues 202-52-28-5 = 90 gm
skull only nulliparous

1276 ♂ Thomomys bottae + tissues 235-57-32-5 = 145 gm
scrotal t=18mm SV=10mm

1277 ♂ Thomomys bottae + tissues 232-57-31-5 = 150 gm
scrotal t=20mm SV=10mm

CATALOGUE

Gold Run Creek, 3 mi. S Susanville, Lassen Co., California, 4240 ft.

22 March

emb 3R-3L CR=7mm
1278 ♀ Thomomys + tissue ~~# tissue~~ 255-67-35-7 = 197 grams

Gold Run Creek, 3 mi. S, ^{0.5 mi. W} Susanville, Lassen Co., California, 4320 ft.

23 March

testes=14mm SV=3mm
1279 ♂ Thomomys + tissue 223-67-30-5 = 134 grams

testes=14mm SV=5mm
1280 ♂ Thomomys + tissue 240-78-33-5 = 168 grams

testes=15mm SV=6mm
1281 ♂ Thomomys + tissue 267-86-30-6 = 186 grams

Gold Run Creek, 3 mi. S, ~~0.5 mi. W~~ Susanville, Lassen Co., California, 4320 ft.

24 March

nulliparous
1282 ♀ Thomomys + tissue 195-57-28-5 = 107 grams

testes=19mm SV=8mm
1283 ♂ Thomomys + tissue 220-61-30-5 = 173 grams

testes=15mm SV=4mm
1284 ♂ Thomomys + tissue 203-60-28-5 = 94 grams

pelvis notched
1285 ♀ Thomomys + tissue 213-64-30-5 = 117 grams

nulliparous
1286 ♀ Thomomys + tissue 194-54-28-4 = 85 grams

testes=16mm SV=8mm
1287 ♂ Thomomys + tissue 240-66-33-6 = 184 grams

testes=18mm SV=5mm
1288 ♂ Thomomys + tissue 221-60-30-6 = 140 grams

25 March

pelvis open
1289 ♀ Thomomys + tissue 220-67-30-6 = 118 grams



Smith, M.F.
1993

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CATALOGUE

Las Victorias, 4.2 km E Bariloche, Prov. Rio Negro,

Argentina

Nov. 22

+ tissues

1290

testes 11x6 mm

♂ Abrothrix xanthorhina

149-55-20-15 = 12⁺ grams

+ tissues

1291

no embryos, no uterine scars

♀ Eligmodontia morgani

155-64-20-15 = 16 grams

+ tissues

1292

no emb

♀ Oligoryzomys longicaudatus

199-105-27-17 = 19 grams

Pampa Quemada, 12 km W Bariloche, Prov. Rio Negro, Argentina

Nov. 23

+ tissues

1293

testes = 7x5 mm

♂ Eligmodontia morgani

155-60-21-17 = 22 grams

+ tissues

1294

testes = 13x4 mm

♂ Abrothrix longipilis

189-74-25-16 = 39 grams

+ tissues

1295

testes = 12x4 mm

♂ Abrothrix longipilis

204-78-25-16 = 43 grams

+ tissues

1296

no embryos

♀ Auliscomys micropus

249-105-31-21 = 55 grams

road to Colonia Suiza, 15 km W Bariloche, Prov. Rio Negro,

Argentina

Nov. 23

no tissues

formalin

1297

emb 2R-2L cR=3mm

♀ Oligoryzomys longicaudatus

200-105-26-17 = 21 grams

Nov. 24

+ tissues

1298

no emb

♀ Abrothrix olivaceus

190-77-22-15 = 26 grams

+ tissues

1299

testes = 12x8 mm

♂ Abrothrix olivaceus

175-71-23-15 = 26 grams

+ tissues

1300

no emb.

♀ Abrothrix olivaceus

158-56-21-15 = 20 grams

complete skeleton

+ tissues

1301

testes = 7x3 mm

♂ Oligoryzomys longicaudatus

224-114-28-18 = 40 grams

"

+ tissues

1302

testes = 6x4 mm

♂ "

229-122-30-17 = 42 grams

"

+ tissues

1303

no emb.

♀ "

197-109-27-16 = 23 grams

"

+ tissues

1304

testes = 6x3 mm

♂ Auliscomys micropus

177-76-25-18 = 27 grams

"

+ tissues

1305

no emb.

♀ Abrothrix longipilis

178-70-26-16 = 39 grams

"

+ tissues

1306

testes = 12x8 mm

♂ "

185-74-26-16 = 42 grams

"

+ tissues

1307

testes = 11x7 mm

♂ "

195-74-25-15 = 48 grams

"

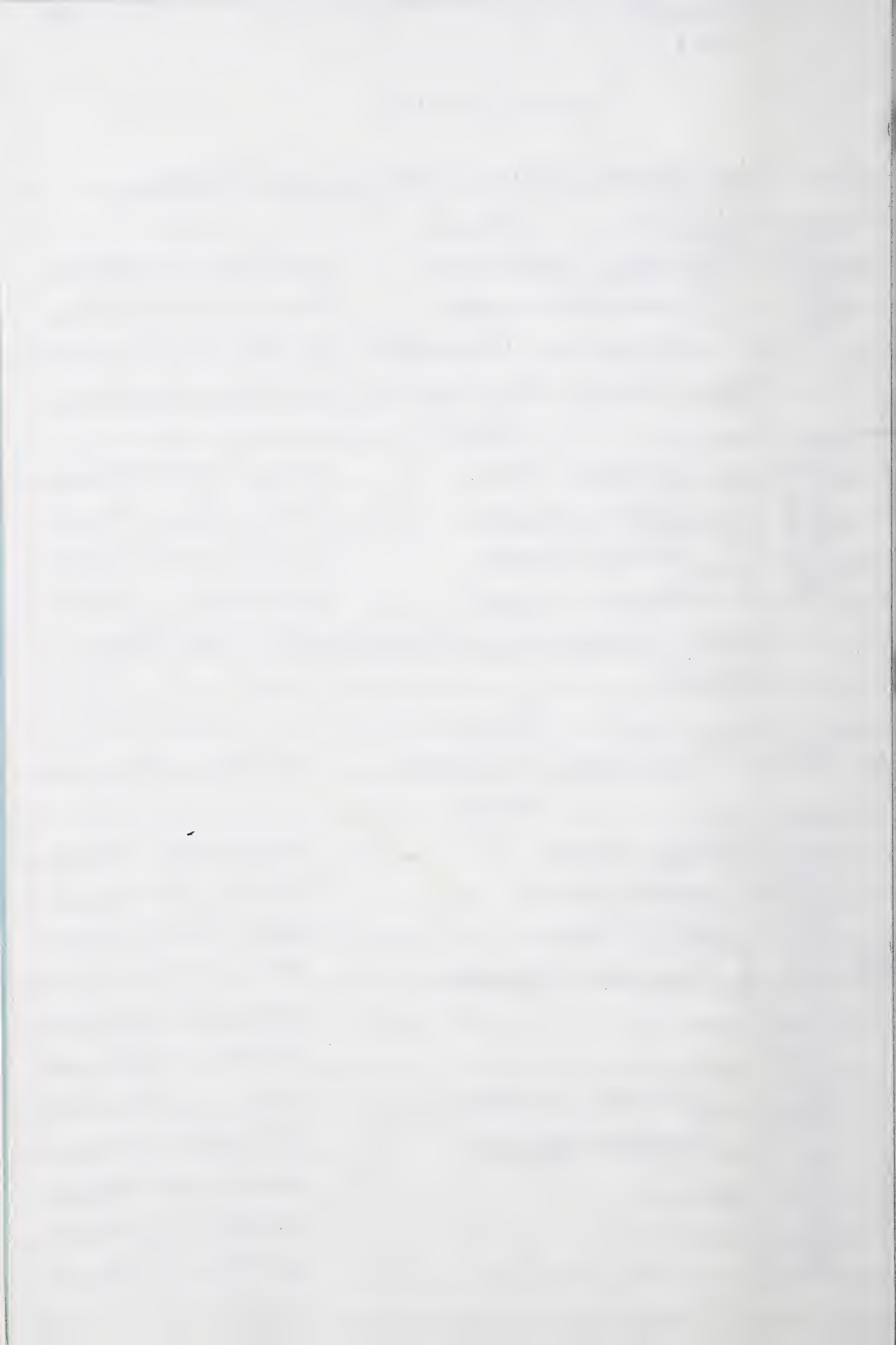
+ tissues

1308

no emb.

♀ "

181-70-24-15 = 40 grams



Smith, M.F.
1993

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CATALOGUE

east knoll of Cerro Otto,
Prov. Rio Negro, Argentina

Nov. 25

+tissues
1309

no emb.

♀ Abrothrix xanthorhina

151-65-20-15 = 18 grams

10 km S Comallo, 2900 ft. Prov. Rio Negro, Argentina

Nov. 25

+tissues

1310

testes = 12 x 7 mm

♂ Abrothrix xanthorhina

149-59-20-16 = 21 grams

+tissues

1311

emb 3R-5L CR = 2 mm

♀ Eligmodontia morgani

190-100-25-19 = 20 grams

Nov. 26

+tissues

1312

emb 2R-4L CR = 2 mm

♀ Akodon sp.

148-49-22-13 = 18 grams

+tissues

1313

emb 3R-2L CR = 1 mm

♀ " "

140-47-18-12 = 16 grams

skull only

1314

emb 3R-2L CR = 4 mm

♀ Eligmodontia morgani

195-97-25-19 = 24 grams

skull only

1315

no emb

♀ Reithrodon auritus

177-64-31-20 = 28 grams

+tissues

1316

testes = 12 x 7 mm

♂ Abrothrix xanthorhina

154-54-21-19 = 25 grams

skull only

1317

testes 9 x 4 mm

♂ Eligmodontia morgani

192-89-23-20 = 25 grams

skull only

1318

testes 9 x 6 mm

♂ Akodon

163-51-22-15 = 29 grams

skull only

1319

emb 5R-3L CR = 11 mm

♀ " "

155-55-21-13 = 34 grams

skull only

1320

emb 3R-5L CR = 4 mm

♀ " "

149-50-21-14 = 24 grams

prepared Nov. 27 (animals kept alive in Shermans until then)

+tissues

1321

emb 2R-2L CR = 12 mm

♀ Eligmodontia morgani

182-86-23-18 = 21 grams

+tissues

1322

no emb

♀ " "

187-90-25-18 = 25 grams

+tissues

1323

testes = 6 x 4 mm

♂ " "

187-94-23-18 = 20 grams

+tissues

1324

no emb.

♀ Phyllotis xanthopygus

256-120-30-29 = 58 grams

+tissues

1325

no emb.

♀ Reithrodon auritus

171-61-29-24 = 28 grams

Rio Castaño Overo, 44 kmw Bariloche, 890m,
Prov. Rio Negro, Argentina

Nov. 28

+tissues

1326

testes = 11 mm

♂ Abrothrix olivaceus

175-78-22-17 = 22 grams



Smith, M.F.
1993

CATALOGUE

44 km W Bariloche, 890m,

Rio Castaño Overo, Prov. Rio Negro, Argentina

Nov. 29

+tissues	no emb.		
1327	♀	<u>Abrothrix olivaceus</u>	180-74-23-18 = 33 grams
+tissues	no emb.	"	
1328	♀	"	160-70-23-16 = 19 grams
+tissues	testes = 13x8 mm	"	
1329	♂	"	200-88-25-16 = 28 grams
+tissues	testes = 10x6 mm		
1330	♂	<u>Geoxus valdivianus</u>	155-50-22-12 = 30 grams

Lago Mascardi (west end), Prov. Rio Negro, Argentina

Nov. 30

+tissues	testes 12x7 mm		
1331	♂	<u>Abrothrix olivaceus</u>	185-80-24-16 = 29 grams
+tissues	testes 12x8 mm	"	
1332	♂	"	185-76-23-17 = 33 grams
+tissues	no emb.	"	
1333	♀	"	189-83-23-17 = 30 grams
+tissues	testes = 12x7 mm	"	
1334	♂	"	185-80-24-17 = 30 grams

prepared Dec. 1 - animals kept alive in Shermans until today

+skull carcas in formalin	+tissues	testes 12x7 mm	
1335	♂	<u>Abrothrix olivaceus</u>	194-80-24-17 = 34 grams

Hipodromo, 12 km WNW Bariloche, Prov. Rio Negro, Argentina

Dec. 2

+tissues	juv. no emb.		
1336	♀	<u>Abrothrix olivaceus</u>	138-52-21-13 = 11 grams
+tissues	testes = 11x6 mm	"	
1337	♂	"	178-73-22-15 = 26 grams
+tissues	testes 11x7 mm	"	
1338	♂	"	174-66-22-15 = 25 grams
formalin	testes = 7x4 mm		
1339	♂	<u>Oligoryzomys longicaudatus</u>	216-70-27-16 = 25 grams
formalin	emb 2R-2L CR = 17 mm	"	
1340	♀	"	206-101-26-16 = 25 grams

Dec. 3

+tissues	uterine scars		
1341	♀	<u>Abrothrix olivaceus</u>	167-64-22-16 = 25 grams
+tissues	testes = 10x6 mm	"	
1342	♂	"	161-67-22-16 = 23 grams
+tissues	testes 11x6 mm	"	
1343	♂	"	187-77-24-18 = 31 grams

Las Victorias, 4.2 km E Bariloche, Prov. Rio Negro, Argentina

Dec. 4

embryos rozen	+tissues	emb 3R-2L CR = 11 mm	
1344	♀	<u>Abrothrix xanthorhinus</u>	142-56-20-15 = 22 grams



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CATALOGUE

Las Victorias, 4.2 km E Bariloche, Prov. Rio Negro, Argentina

Dec. 4

embryos frozen	+ tissues	emb 1R-5L CR=13mm	
	1345	♀ <u>Abrothrix xanthorhinus</u>	144-50-21-16 = 22 grams
	+ tissues	testes = 8x4 mm	
	1346	♂ <u>Eligmodontia morgani</u>	164-70-23-17 = 22 grams
	+ tissues	testes = 11x6 mm	
	1347	♂ <u>Abrothrix xanthorhinus</u>	153-59-19-16 = 22 grams
	+ tissues	no emb	
	1348	♀ " "	157-61-19-16 = 20 grams

Dec. 5

embryos frozen	+ tissues	emb 2R-3L CR=16mm	
	1349	♀ <u>Abrothrix xanthorhinus</u>	146-54-20-16 = 26 grams
	+ tissues	testes = 10x5 mm	
	1350	♂ <u>Reithrodon auritus</u>	216-90-34-25 = 68 grams
	+ tissues	testes = 12x6 mm	
	1351	♂ " "	222-92-34-25 = 73 grams
	+ tissues	emb 6R-0L CR=5mm	
	1352	♀ <u>Abrothrix xanthorhinus</u>	144-52-21-15 = 17 grams
5 embryos frozen	+ tissues	emb 3R-2L CR=22mm	
	1353	♀ " "	159-57-20-16 = 33 grams
	+ tissues	testes = 7x4 mm	
	1354	♂ <u>Eligmodontia morgani</u>	157-70-23-15 = 15 grams

Estancia El Condor, 18 km SE Bariloche, 790m., Prov. Rio Negro, Argentina

Dec. 6

+ tissues	emb 3R-2L CR=16mm	
1355	♀ <u>Abrothrix xanthorhinus</u>	154-58-20-15 = 32 grams
+ tissues	testes 10x6 mm	
1356	♂ " "	135-52-20-15 = 18 grams
+ tissues	perous " no emb.	
1357	♀ " "	149-51-19-16 = 22 grams
+ tissues	testes 8x6 mm	
1358	♂ " "	125-48-20-16 = 11 grams



Smith, M.F.

1994

CATALOGUE

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Arroyo El Renegado, 3 km E Pan de Azucar,
Depto. Maldonado, Uruguay

Nov. 21

+skeleton
CA + tissues
683 1359

emb 1R-2L CR=12mm
♂ Scapteromys tumidus

335-148-42-26=152gm

Las Flores, Depto. Maldonado, Uruguay

Nov. 22

+skeleton + tissues
1360

testes 12x7mm
♂ Oxymycterus

207⁺-60⁺-28-18=66gm

+skeleton + tissues
orange 1361

testes 11x6mm
♂ "

202⁺-51⁺-27-16=82gm

+skeleton + tissues
1362

testes 12x7mm
♂ "

261-104-27-17=80gm

Punta Rasa, Depto. Maldonado, Uruguay

Nov. 22

fluid + tissue
1363

testes 9x5mm
♂ Ctenomys pearsoni

298-81-40-7=296gm

fluid + tissue
1364

testes 5x2mm
♂ "

240-69-35-7=136gm

Las Flores, Depto. Maldonado, Uruguay

Nov. 23

fluid + tissue
1365

testes 15x13mm
♂ Cavia

278-0-46-27=390gm

+ tissue
1366

testes 15x8mm
♂ Scapteromys tumidus

300⁺-113⁺-40-25=132gm

in
in Uruguay 1367

emb 3R-3L CR=25mm
♀ "

334-147-41-25⁵=164gm

alcohol + tissue
1368

emb 4R-2L CR=10mm
♀ "

345-158-42-25=138gm

Smith, M.F.
1994

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CATALOGUE

Fundo San Martin, comuna San José, Provincia Valdivia,
Chile

Dec. 8

+tissues	testes 4x3 mm	
1369	♂ <u>Abrothrix olivaceus</u>	120-52-21-13 = 8.5 gm
+tissues	no emb. uterus string like; lactating	
1370	♀ " "	177-80-24-17 = 25 gm
+tissues	seems 2 R-2L; lactating	
1371	♀ " "	168-74-22-15 = 23 gm
+tissues	testes 12x8 mm	
1372	♂ " "	180-86-24-17 = 28.5 gm

Dec. 9

+tissues	testes 11x7 mm	
1373	♂ <u>Abrothrix olivaceus</u>	188-83-24-17 = 34 gm
+tissues	testes 14x8 mm	
1374	♂ " "	181-82-23-17 = 30 gm
+tissues	no emb; uterus stringy	
1375	♀ " "	116-52-19-11 = 7 gm
+tissues	testes 4x3 mm	
1376	♂ " "	125-60-21-14 = 10 gm

LOCALIDAD Arroyo El Renegado, 3 km E Pon de Azúcar, Depto. Maldonado -

COLECTOR MN Cortez, F Hoffmann, MF Smith, L. Joseph, F. Lora

FECHA 21 / 11 / 94

[illegible]

Oxygencious

Septemys

LOCALIDAD Las Flores (*) Departamento de Maldonado, (H) Haizen Wall Arroyo Taranias

COLECTOR M.N. Cortez, F. Hoffmann, M. Smith, E. Lenz, L. Joseph FECHA 23 11 194

Nº orig.	Sx	Pelo	W	LT	^{orig} LC	PSU	PCU	Car	Formol	N2 liq. H R C			Alcohol	OBSERVACIONES
685	♂		75	230	¹⁶ 85	24	28	-	Testículos Pene	✓	✓	✓	Higado	testes 6x4mm
686	♀		80	224	¹⁸ 83	23	27	-						Embriones - 2 12da iguales ↳ Aludid
687	♂		84	253	¹⁶ 99	25	29	✓						testes 12x7mm
688	♂		82	244	¹⁶ 90	23	27	✓						testes 12x5mm
689	♂		36	195	¹⁴ 79	23	26	✓						
690	♂		66	224	¹⁷ 75	23	28	✓						testes 12x6mm

Oryzomys

1 sacado + 11
marcas de presentacion.

"
"
"
"
"

LOCALIDAD Las Flores, margen W Puoy Taravira, Dept. Maldonado

COLECTOR H.N. Cortinas, F. Hoffmann, H.F. Smith, L. Joseph, F. Lenz

FECHA 24 / 11 / 94

Nº orig.	Sx	Pelo	W	LT	LC	PSU	PCU	Car	Formol	N2 liq. H R C	Alcohol	OBSERVACIONES
691	♂		26	180	15/46	20	21	X				Abiertos (seg. de los de
692	♂		30	183	14/41	17	20	X				Muertos
693	♂		26	202	16/89	28	31	X				
694	♀		68	240	17/91	25	29	X				
695	♀		49	205	20/81	25	28	X			embr.	vagina cerrada, 2 emb., 1 zig, 1 der
696	♂		38	195	16/46	24	27	X			per, test	
697	♀		44	197	16/75	23	26	X				vagina cerrada, no embr. no marcas placent.
698	♀		131	337	21/139	30	41	X				vagina abierta 5 embrs 4 zig 1 derecho 20mm
699	♂		139	344	22/141	37	42					test - 15mm mm
700	♀		41	234	22/100	34	36					vagina cerrada sin embrs sin marcas placentación
701	♀		78	222	18/77	23	27	si			embrs	vag. abierta 4 embrs 2 zig + 2 der 33 cm
702	♂		33	175	16/62	21	22	si				
703	♂				16/97	20	22					

- scap

Alc

Scapteromys juv.

Oxymycterus

Oxy. mycterus

Oxy. mycterus

Oxy. mycterus

scap. → LT = 337

orige = 23 Scapteromys

Scapteromys juv.

Oxy. mycterus

704

249

LOCALIDAD Idem que anterior (Las Flores) margen W Arroyo de los Hornos Depto. Maldonado.

COLECTOR M.V. Cortés, F. Koffmann, M.F. Smith, L. Joseph, E. Lessa FECHA 24, 11, 1964

Nº orig.	Sx'	Pelo	W	LT	⁵⁴ LC	PSU	PCU	Car	Formol	N2 liq. H R C			Alcohol	OBSERVACIONES
703	♂		32	194	¹⁵ 82	20	22	9						test 10x7
704	♂		24	249	¹⁶ 97	20	24	9	257 test	¹⁶ 4	¹⁶ 4	¹⁶ 4	10x15	test 8x15

Kali
by

oxymetazoline

Oxymycterus

juveniles
~~juveniles~~ (?)

more orange

CA ♀ 686 ^{3 cm} TL 224

♂ 687 testis 12x7

♂ 690 " 12x6

♀ 694

♀ 701 4 cm

♂ 704 testis 15x8

MFS ♂ 1361 testis 11x6

CA ♂ 696

♀ 697 no eunus or scars

♂ 689

paler ventrally, less orange

MFS ♂ 1360 testis 12x7

♂ 1362 " 12x7

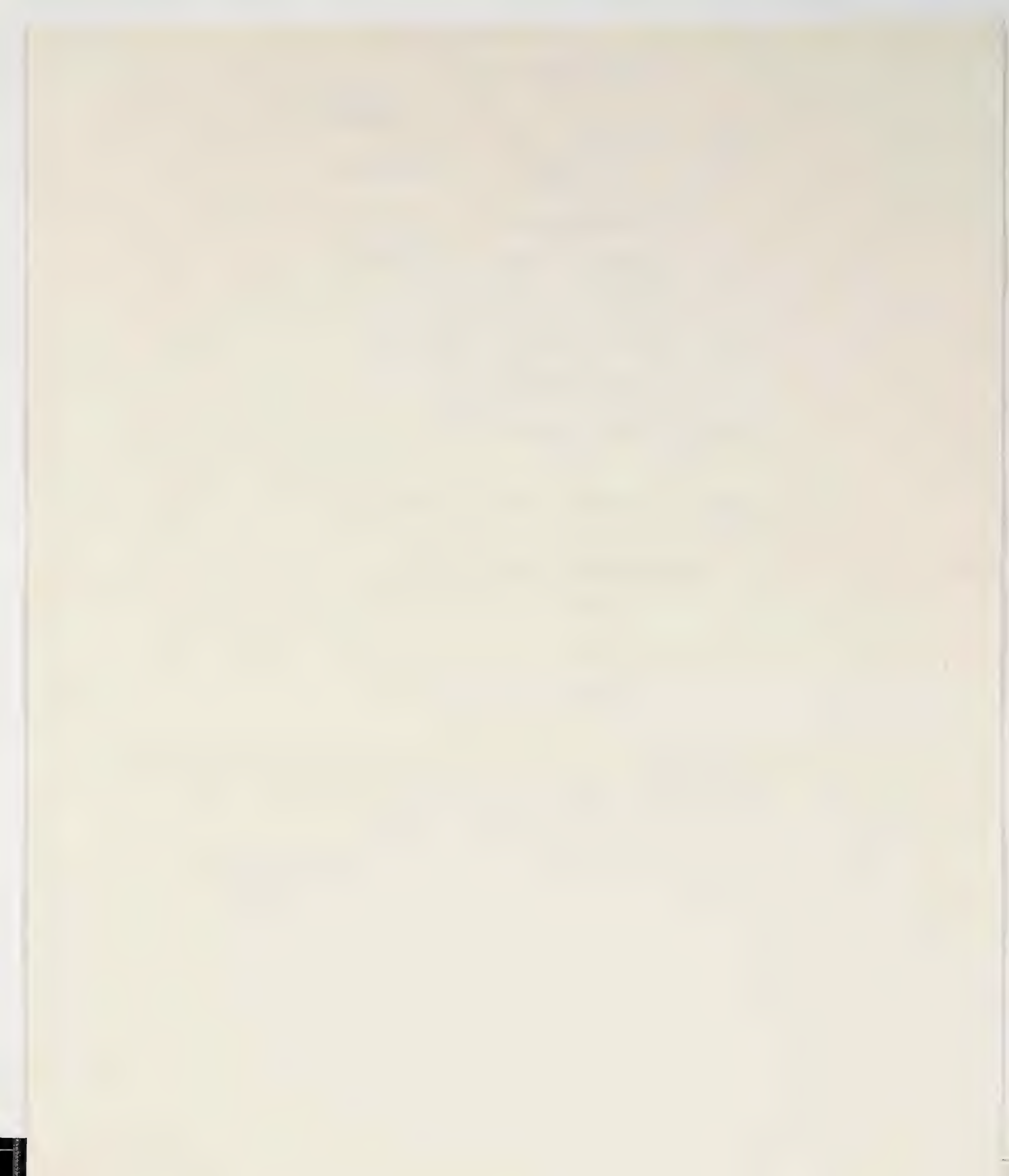
CA ♂ 685 " 6x4 mm

♂ 688 " 12x5 mm

Smaller gray/black base to hairs ventrally

CA 680 ♀ TL 187 no eunus or scars

695 ♀ 205 approx. juvenile
(2 eunus)



Smith, M.F.
1996

120

CATALOGUE

Sycamore Canyon, Patagonia Mts., 11.4 mi E Highway 82,
Santa Cruz Co., Arizona 5940 ft.

8 April 1996

+ tissues t=14x9mm

1377

♂ Thomomys umbrinus intermedius

182-50-25-5=77 grams

Sycamore Canyon, Patagonia Mts., 2.0 mi E Highway 82,
Santa Cruz Co., Arizona 3696 ft.

8 April 1996

skin fragment
only 1378

+ tissues

1379

pelvis open

♀ Thomomys bottae modicus

228-62-31-7=147 grams

+ tissues

1380

pelvis open

♀ " " "

219-65-30-7=128 grams

+ tissues

1381

t=16x10mm

♂ " " "

248-80-34-7=148 grams

+ tissues

1382

pelvis open

♀ " " "

220-60-28-6=118 grams

+ tissues

1383

pelvis open

♀ " " "

213-70-29-6=100 grams

+ tissues

1384

pelvis open cmb 1R-2L

♀ " " "

208-60-30-5=135 grams

+emb

+ tissues

1385

pelvis open

♀ " " "

210-63-29-6=125 grams

9 April 1996

1386

scrotal t=21x15mm

♂ Thomomys bottae modicus

209-65-32-7=136 grams

1387

pelvis open

♀ " " "

200-66-29-6=116 grams

1388

scrotal t=19x13mm

♂ " " "

223-71-31-5=130 grams

1389

pelvis open

♀ " " "

199-65-29-6=104 grams

Smith, M.F.
1996

121

CATALOGUE

Sycamore Canyon, Patagonia Mts., 5.0 mi. E Highway 82,
Santa Cruz Co., Arizona, 4125 ft.

9 April 1996

+ tissue 1390	pelvis open ♀	Thomomys	bottae	modicus	203-60-27-5 = 98 grams
+ tissue 1391	pelvis open ♀	"	"	"	185-65-26-7 = 87 grams
+ tissue 1392	pelvis open ♀	"	"	"	222-67-28-6 = 113 grams
+ tissue 1393	scrotal t = 18 x 12 mm ♂	"	"	"	208-65-29-6 = 130 grams
+ tissue 1394	pelvis closed ♀	"	"	"	205-69-30-6 = 96 grams
+ tissue 1395	pelvis closed ♀	"	"	"	208-70-30-7 = 94 grams
+ tissue 1396	scrotal ♂	"	"	"	211-60-31-6 = 109 grams
+ tissue 1397	pelvis open ♀	"	"	"	200-66-27-6 = 90 grams
+ tissue 1398	scrotal t = 16 x 12 mm ♂	"	"	"	208-57-30-7 = 114 grams
+ tissue 1399	non scrotal t = 24 x 7 mm ♂	"	"	"	213-63-29-6 = 120 grams
+ tissue 1400	scrotal t = 14 x 10 mm ♂	"	"	"	215-66-30-7 = 112 grams
+ tissue 1401	pelvis open ♀	"	"	"	191-64-27-6 = 96 grams
+ tissue 1402	scrotal t = 20 x 11 mm ♂	"	"	"	217-68-30-6 = 123 grams

10 April 1996

+ tissue 1403	pelvis closed ♀	Thomomys	bottae	modicus	196-64-28-6 = 96 grams
+ tissue 1404	juv. ♀	"	"	"	128-35-22-5 = 30 grams
+ tissue 1405	pelvis open ♀	"	"	"	210-67-29-7 = 102 grams
+ tissue 1406	scrotal t = 17 x 12 mm ♂	"	"	"	205-67-28-6 = 102 grams



Smith, M.F.

1996

122

Sycamore Canyon, Patagonia Mts., 6.2 mi. E Highway 82,
Santa Cruz Co., Arizona 4389 ft.

10 April 1996

+tissues	pelvis closed			
1407	♀	<u>Thomomys</u>	<u>bottae</u>	<u>modicus</u>
				195-63-27-6 = 88 grams
+tissues	pelvis open	"	"	"
1408	♀	"	"	"
				196-60-27-6 = 83 grams
+tissues	scrotal t = 12 x 6 mm	"	"	"
1409	♂	"	"	"
				233-75-31-7 = 125 grams
+tissues	scrotal t = 20 x 14 mm	"	"	"
1410	♂	"	"	"
				215-69-24-6 = 117 grams

11 April 1996

+tissue	pelvis open			
1411	♀	<u>Thomomys</u>	<u>bottae</u>	<u>modicus</u>
				204-64-27-6 = 100 grams
+tissues	scrotal t = 17 x 12 mm	"	"	"
1412	♂	"	"	"
				217-60-30-7 = 140 grams
+tissues	pelvis open	"	"	"
1413	♀	"	"	"
				200-63-27-6 = 98 grams

Sycamore Canyon, Patagonia Mts., 9.5 mi. E Highway 82,
Santa Cruz Co., Arizona 5148 ft.

11 April 1996

+tissues	pelvis open			
1414	♀	<u>Thomomys</u>		
				183-59-27-5 = 74 grams
+tissues	scrotal t = 12 x 10 mm			
1415	♂			
				185-55-26-5 = 95 grams
+tissues	pelvis open			
1416	♀			
				175-61-23-5 = 66 grams

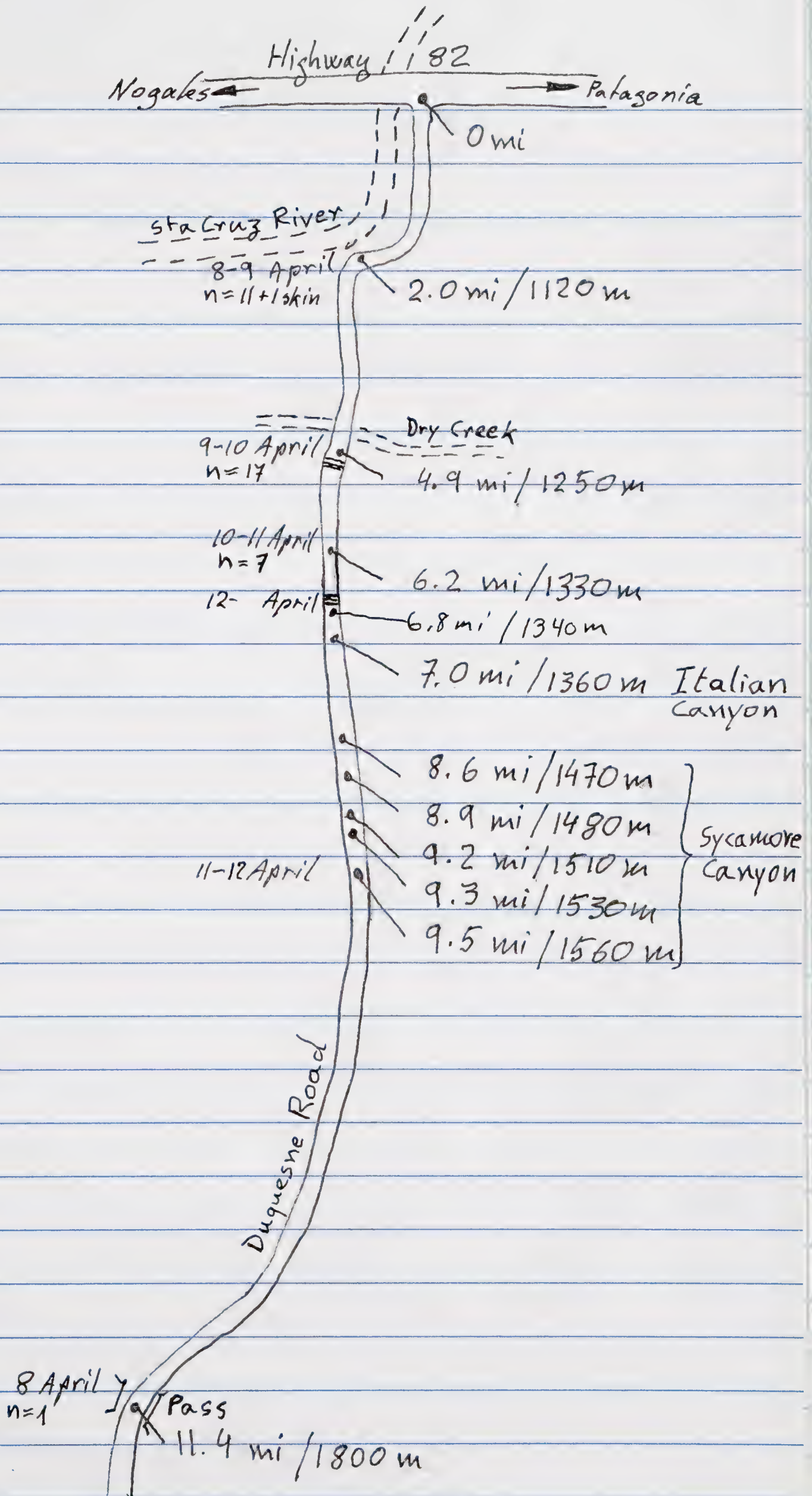
Sycamore Canyon, Patagonia Mts., 6.8 mi. E Highway 82,
Santa Cruz Co., Arizona 4422 ft.

12 April 1996

+tissues	pelvis closed			
1417	♀	<u>Thomomys</u>		
				204-60-29-7 = 101 grams
+tissues	scrotal t = 17 x 13 mm			
1418	♂			
				224-71-32-7 = 133 grams



M.F. Smith
1996





M. F. Smith
1979-1996

Journal

1979-1980

New Mexico: Sierra, Socorro,
Valencia Cos.

M.F. Smith
1979

JOURNAL

5 mi. S, 2.7 mi. W Truth or Consequences, 4300', Sierra Co., New Mexico

Aug. 29

Flew from San Francisco to Albuquerque, New Mexico, on Tuesday evening, Aug. 28. John and Dave Hafner met me at the airport. Stayed overnight at Dave and Diane's in Albuquerque. John Hafner, Dave Hafner, and I left Albuquerque on Wednesday morning and drove south on Highway 25 on the west side of the Rio Grande River. Our purpose is to collect samples of Thomomys bottae in the zone of contact between the northern type, represented by T. b. connectens from Albuquerque and Bernardo, and T. b. opulentis, the southern type, from San Marcial and Radium Springs. We decided to collect another reference sample from near Truth or Consequences.

Got off the highway at the Cuchillo exit and drove east to Elephant Butte, then south west to Truth or Consequences looking for gopher mounds. Drove south from Truth or Consequences on old highway 85 and stopped at Las Palomas to look for mounds in the alfalfa fields. Las Palomas is not a very big town, and there were just a few houses in sight where we stopped. We saw a few mounds, then John talked to the rancher and he led us to the other end of the fields, where there was more gopher activity. By late afternoon we had trapped 16 gophers; 6 of these were alive and we kept them in

M.F. Smith
1979

JOURNAL

Aug. 29

5 mi. S, 2.7 mi. W Truth or Consequences, 4300', Sierra Co., New Mexico

live traps to be karyotyped later. We drove north to camp at Springtime Canyon campground in Nogal Canyon in the San Mateo Mts. north and west of Truth or Consequences in the Cibola Nat'l. Forest. There is a cattle tank near the campsite which has a wide diversity of bats visiting it at night. However, we didn't have time to net bats because we still had animals to stuff. Dave cooked beans which we had late in the evening.

1 mi. N, 1 mi. W San Marcial, 4700 ft., Socorro Co., New Mexico

Aug. 30

We drove north to the San Marcial turnoff and drove along a dirt road to San Marcial, which again is just a collection of a few houses. We saw very little activity right next to the river so we headed back west along the dirt road again. We did find some places to set traps in the creosote bush desert. Set all along the road between San Marcial and the Highway. Eventually we caught 6 animals, 2 of which stayed alive until we got back to Albuquerque to do the karyotyping.

San Antonio, 4550 ft., Socorro Co., New Mexico

Aug. 30

Drove north along the highway to San Antonio, on the north side of the Bosque del Apache Nat'l. Wildlife Refuge. There used

M.F. Smith
1979

JOURNAL

San Antonio, 4550 ft., Socorro Co., New Mexico

Aug. 30 to be much more marsh land along the river before dams and other flood control activity along the Rio Grande. At San Antonio we parked in the shade of the old railroad station building. I processed the dead animals from San Marcial while John and Dave set traps along the railroad tracks and at the edge of some fields. Checked the traps a couple times, then went to the Owl Cafe for green chile cheeseburgers. Went back and checked the traps in the dark, and there were several animals. Then drove east on highway 380 and north on a side road on BLM land to camp and process the animals from the night check at San Antonio. Bright flashes of lightning to the north and east.

Aug. 31 Pulled the traps at San Antonio in the morning, getting a couple more gophers.

A total of 11 animals from San Antonio, 3 of which were alive when we got to Albuquerque to do the karyotyping.

Socorro, 4550 ft., Socorro Co., New Mexico

Aug. 31 Drove north to Socorro, and stopped on the south east edge of town along the railroad tracks. Saw a little activity there, then John talked to a rancher who said he had

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1979

JOURNAL

Socorro, 4550ft., Socorro Co., New Mexico

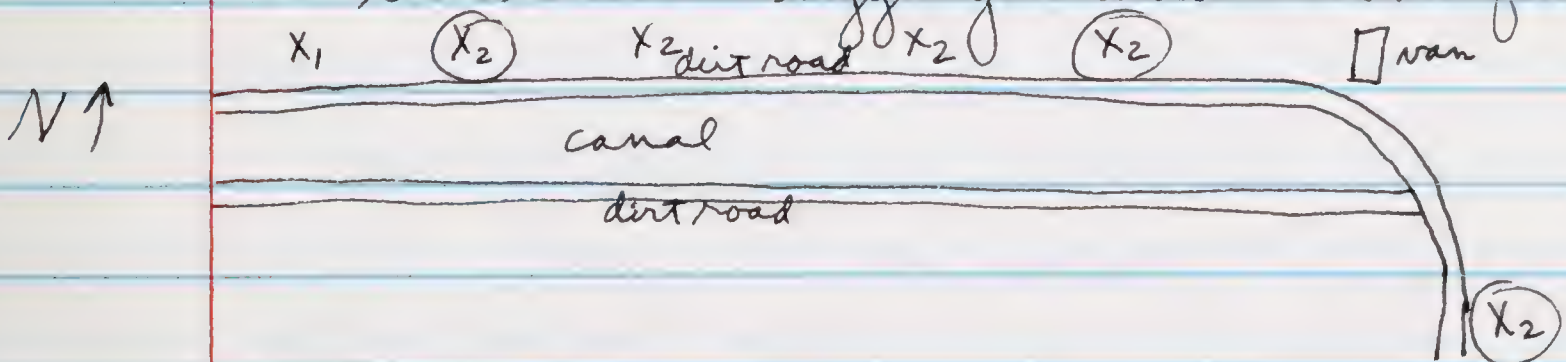
Aug. 31

many gophers in his fields. He had a very big operation. We drove past several corn fields, then finally found some alfalfa fields right next to the river. John set along the edge of the field and Dave and I set along an irrigation canal parallel to the river. Caught several dead animals, then finally got some live ones for karyotyping. Total of 15 animals for Socorro, 5 of which we later karyotyped.

San Acacia, 4700ft., Socorro Co., New Mexico

Aug. 31

Drove north to San Acacia. Saw some good looking fields on the east side of the highway, west of the railroad tracks. John talked to the rancher and again he said to take all the gophers we wanted, I set along the edge of an alfalfa field. This was the easiest digging I had had so far.



I caught 3 animals out of my 6 sets. Altogether we got 10 animals, 2 karyotyped. Finished processing these animals after dark. Got back to Albuquerque around 11 PM.

M.F. Smith
1979

JOURNAL

Albuquerque, New Mexico.

Sept. 1

Went in to the University of New Mexico to karyotype the 18 live gophers. Also took tissue, stained the slides and left them to dry overnight. Went back to Dave's house to skin animals.

Sept. 2

Finished skinning the rest of the animals and I wrote up my journal.

M.F. Smith
1980

JOURNAL

3 mi. S La Joya, 4700', Socorro Co., New Mexico

May 11

Flew from San Francisco to Albuquerque, New Mexico on Saturday evening, May 10. Jim and Carol Patton and Dave Hafner met me at the airport. We stayed overnight at Dave and Diane's in Albuquerque. Left on Sunday morning to drive south to La Joya. The purpose of this trip is to follow up on the contact zone located by John and Dave Hafner and me in August-September, 1979. The contact is about 50 miles south of Albuquerque along the Rio Grande between La Joya (Thomomys bottae connectens) and San Acacia (Thomomys bottae opulentis).

T. b. connectens has no acrocentric chromosomes, T. b. opulentis has ~15 pairs of acrocentrics.

The subspecies are also differentiated genetically (allozymically). We will take tissues from all animals and karyotype any that are caught alive.

Got off the highway at the La Joya exit. Drove through La Joya and south along a dirt road past one windmill and camped at near the second windmill. Split up to set out traps. Jim and Carol went north along a canal about 2 miles and then south on the other side of the canal about 2 miles. Dave and I went south from the camp. I set my traps out

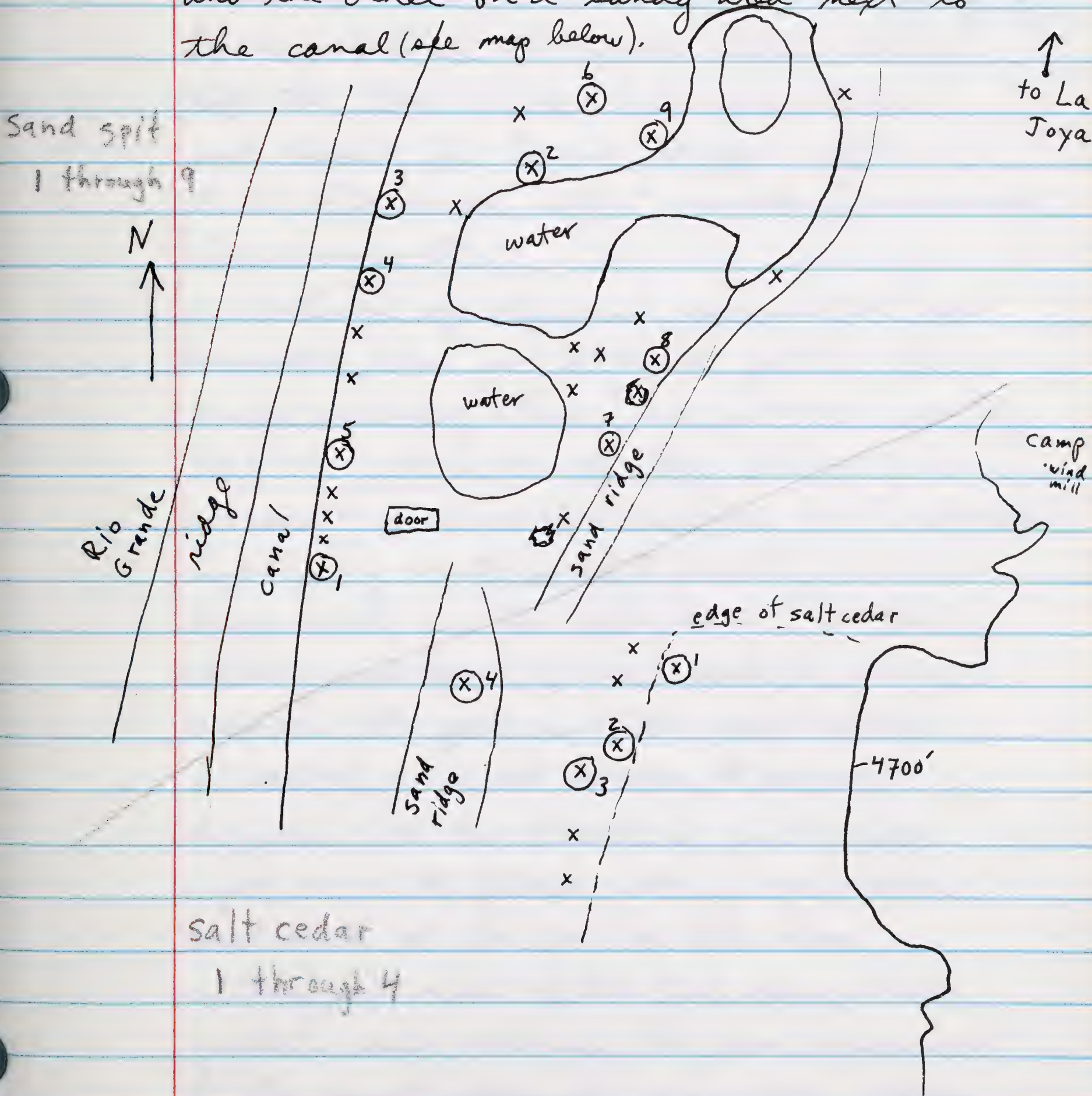
M.F. Smith
1980

JOURNAL

May 11

3 mi. S La Jota, 4700', Socorro Co., New Mexico

towards the river from a bluff with a contour of 4700'. My traps were concentrated in two small areas, one area with salt cedar and the other on a sandy area next to the canal (see map below).



M.F. Smith

1980

JOURNAL

3 mi. S La Joya, 4700', Socorro Co., New Mexico

May 11

Checked the traps several times during the afternoon and reset any that had caught animals. Took tissues from dead animals and saved the live ones for karyotyping. Discovered that the inverter didn't work, so left the blood on ice to be spun later; put tissues in liquid nitrogen. After dark skinned and stuffed animals. Finished at about midnight.

May 12

I checked my traps and processed the new animals. Then went back and pulled all my traps, including those just set this morning. Walked south with my traps planning to set south of Dave's area towards the constriction. Kept going south until I finally ran into Dave right at the constriction. He had already set most of the available mounds between the gate and the constriction. I walked on a bit farther to see what happens. The Rio Grande is quite high right now. It flows right up against the east bank at the bend in the river, cutting out most of the flat areas where gophers would ordinarily be most numerous. At the constriction the river comes within a few meters of rocky hillsides with no apparent sign of gophers. I followed the gravel

M.F. Smith

1980

JOURNAL

3 mi. S La Joya, 4700', Socorro Co., New Mexico

May 12

road which is right next to the river at this point. A short ways further (~200 meters?) there was one pocket of flat land with some old gopher mounds. North-south movement along the river is probably very restricted here; certainly it is so during periods of high water. Looking across the river it looks like there is more habitat available at the bend on the west side of the river. We will try to sample that area later.

On the way back to camp Dave and I set a few more traps and Dave caught a couple animals as well. Got back to camp thirsty and tired and eventually located the cache of supplies Jim and Carol had left for us. They returned shortly with the car. New fuses had not solved the problem with the inverter so they had run the centrifuge off an extension cord at a house in La Joya. We processed, skinned, and stuffed animals. Finished about 9 pm.

May 13

After coffee in the morning Dave went down to bring in his traps and Jim went to get some pictures of the topography of the constriction.

M.F. Smith

1980

JOURNAL

3.5 mi. S La Joya, west side of Rio Grande, 4700 ft.,
Docono Co., New Mexico

May 13

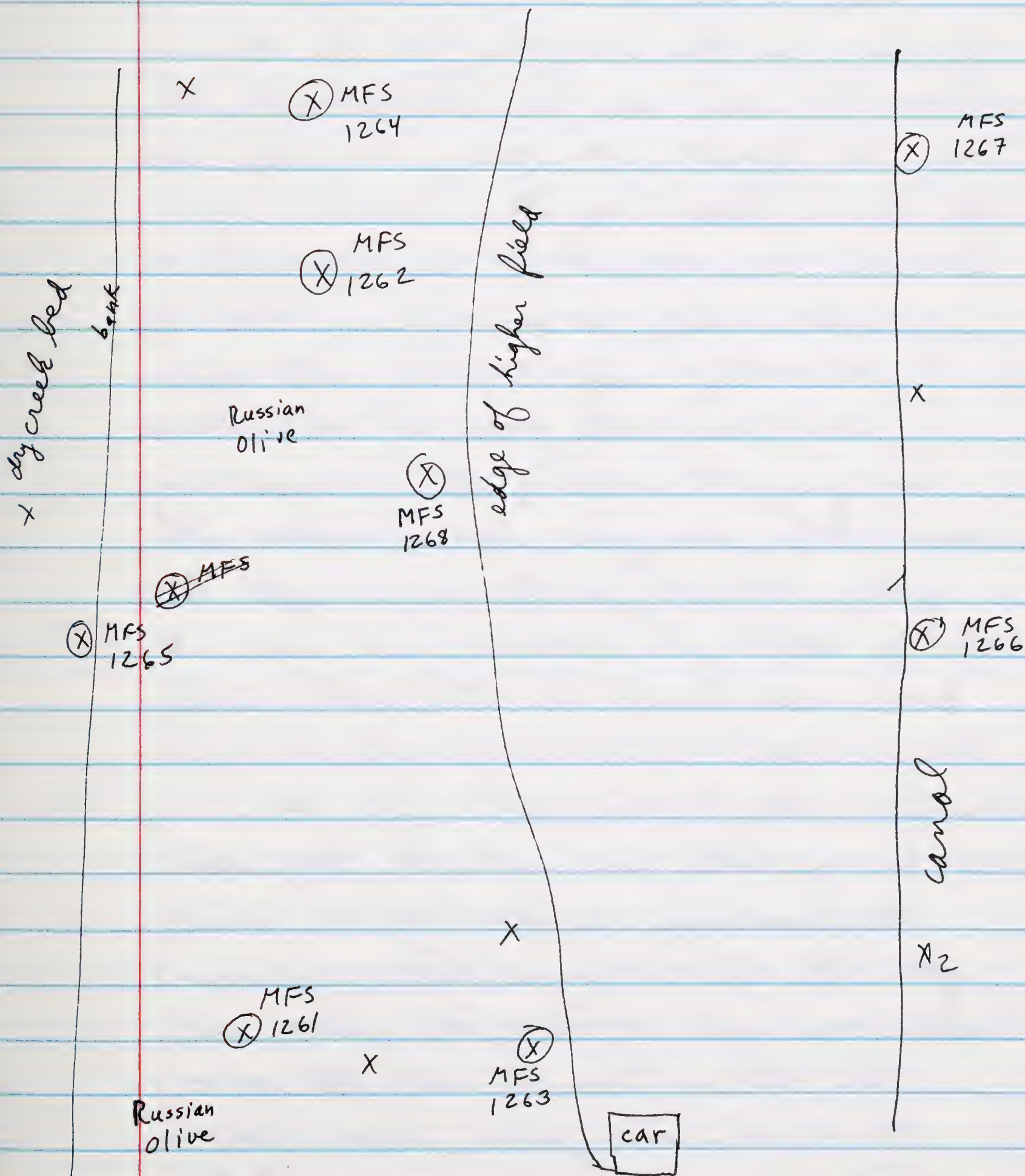
Drove to the La Joya Game Refuge headquarters and spun the blood. Got a key to drive into the road along the canal on the west side of the Rio Grande. The gate had about seven different locks on the chain because many different government agencies need to have access to the area. Drove south as far as the railroad bridge where the Rio Salado enters the Rio Grande. Walked down to the river and examined the adjacent habitat, but found no sign of any gophers here. This appears to be an inhospitable area which would form a barrier to gopher movement. Drove back north along the canal road until we found fields with gopher sign. The animals were present in pockets in the area I worked, and were abundant along the canal bank, within a meter of the water in many places. By evening we had a large sample so we pulled the traps and finished processing, skinning, and stuffing. See map next page for location of my traps.

M.F. Smith
1980

JOURNAL

3.5 mi. S La Joya, west side of Rio Grande, 4700 ft.,
Docono Co., New Mexico

May 13



M.F. Smith
1980

JOURNAL

c.a. 4 mi. S La Joya, 4700 ft., Socorro Co., New Mexico

May 14

Drove back to the refuge headquarters to spin the blood samples and consulted with the staff person there. He said it would be possible to drive along the ~~west~~ east side of the Rio Grande if we went down to Escondida and took the gravel road through the game refuge. He gave us the combination for the lock at the entrance to this area. We were able to drive up as far as our previous locality where Dave had set traps right at the constriction. Set along the gravel road just south of the previous trapping area. The mosquitos were very bad. After checking the traps a few times we drove along the river and across a big stretch of salt flats. Passed the San Acacia dam and drove on down the road but saw no good places to trap. Drove back to the cottonwood trees near the dam and Dave found one mound to set while we processed the animals we had caught earlier that day. Dave then took a bag of traps and walked across the dam to set in the field at San Acacia where John, Dave, and I had trapped in Aug.-Sept. of 1979. The rest of us drove back to bring in the traps from the 4 mi. S of La Joya site,

M.F. Smith
1980

JOURNAL

c.a. 4 mi. S La Joya, 4700 ft., Socorro Co., New Mexico
stopping along the road to set a trap in the
fresh mound we had seen in the road
just north of the dam. Looked around in
the vicinity of that mound and found one
more spot towards the river about 10 meters,
plus another set in the road. Proceeded on
to the site 4 mi. S of La Joya and pulled
the traps. Dave's traps had two more animals
(total 3 animals out of 4 sets at this site).
I caught 1 animal out of 4 traps. Jim and Carol
had more sets out and caught several animals.
Drove back to San Acacia dam to set up
camp. Processed and skinned and stuffed
animals. Dave got back from the ranch
across the river after dark. We processed
and skinned and stuffed the 10 animals he
had caught already in the field at San Acacia.

May 15

Dave was up early and brought in the
animal from the east side of the river south
of San Acacia dam. Jim caught an animal
just north of the dam on the east side.
Dave returned with 7 more animals from the
field at San Acacia. Finished those animals
and broke camp. Got ^{animals} 2 out of 3 sets at the site
right next to the road. Very dark clouds were
building up so we were glad to be heading
back towards the main highway.

M. F. Smith
1980

JOURNAL

Escondida, 4600 ft., Socorro Co., New Mexico

May 15 We stopped at an alfalfa field in Escondida on the east side of the river and got permission to trap there. Caught 8 animals but it started to rain and activity was way down so we pulled the traps. Took tissues from the 7 dead animals before heading north for Albuquerque.

Dropped Dave at his house, Mark and Darcy Hafner had already arrived there. They are on their way to Berkeley. We checked into a motel and spun the blood samples and skinned and stuffed the remaining animals. Got cleaned up and went over to Dave's for dinner and a chat with the Hafner clan.

Albuquerque, New Mexico

May 16 Jim karyotyped the live animals in the motel room while Carol and I did errands and the laundry. We got an inverter at Radio Shack for ~\$80 to replace the defective one. This price is probably better than Sensor Wards.

Cebolita Creek, 16.3 mi. S. Grants, Valencia Co., New Mexico, 6800 ft.

May 17 Drove west from Albuquerque on route 66. Got off at the Quemado exit and south on 117, which is a two lane, paved highway.

M.F. Smith
1980

JOURNAL

Cebolita Creek, 16.3 mi. S Grants, Valencia Co.,
New Mexico, 6800 ft.

May 17 Set up camp in a pretty spot in open fields between the lava flow and rocky cliffs, in scattered junipers. A rancher told us that the cattle had just been moved out of the field that day. We need a sample of T.b. collis from this area. This subspecies is probably related to T.b. connectens from the Albuquerque area, whereas the subspecies on the west side of the lava flow, T.b. morulus, is probably very closely related to or the same as T.b. fulvus.

Evidence of gopher activity in this area is mostly small plugs. I had difficulty locating fresh digging in my area. I got 4 animals out of the 12 sets I put out. Jim and Carol got 23 animals. Then we pulled the Macabees, but they did put out some live traps to get animals for DNA analysis (C value). We finished processing, skinning, stuffing, and spinning the blood at about 9:30 pm. It was quite cold and windy.

May 18 New pocket gophers from the vicinity of Mount Taylor,
New Mexico by E.T. Hooper 1940

Occ. Papers of the Museum of Zool. Univ. Michigan #422

Mammals of the lava fields and adjoining areas in
Valencia County, New Mexico E.T. Hooper 1941 Misc. Publ. Mus. Zool.
Univ. Mich. #51

M.F. Smith
1980

JOURNAL

Albuquerque, New Mexico

May 18

Pulled in the live traps by midmorning. Drove down another mile or so to see the rock arch that a local rancher had told us about. If the animals on the two sides of the lava flow differ karyotypically and genetically as we expect, then there would be potential contact between the two forms around the southern end of the lava flow, or across the narrower parts near Grants. We drove back to Albuquerque and Jim and Carol dropped me at the airport for my flight at 2:45 PM.

Karyotypes
↓

Electrophoresis

Truth or Consequences ($N=16$) electrophoresis ($N=6$) karyotypes

MFS ¹⁷ 1233 ¹⁸ 1234 ✓

DJH ¹⁵ 1745 ¹⁶ 1746 ✓

JCH ¹¹ 1539 ¹⁴ 1540 ✓

1229 1230 1231 1232 1233 1234

1742 1743 1744 1745 1746

1536 1537 1538 1539 1540

San Marcial ($N=6$) electrophoresis

($N=2$) karyotypes

MFS

1235 1236

DJH 1748 ✓

1747 1748

JCH 1541 ✓

1541 1542

San Antonio ($N=11$) electrophoresis

($N=3$) karyotypes

MFS 1239 ✓ 7

1237 1238 1239

DJH 1752 ✓ 6

1749 1750 1751 1752

JCH 1545 ✓ 5

1543 1544 1545 1546

Socorro ($N=15$) electrophoresis

($N=5$) karyotypes

MFS ¹¹ 1243 ¹² 1244 ✓

1240 1241 1242 1243 1244

DJH ¹⁰ 1757 ✓

1753 1754 1755 1756 1757

JCH ⁹ 1550 ⁹ 1551 ✓

1547 1548 1549 1550 1551

Acacia
San Antonio

($N=10$) electrophoresis

($N=2$) karyotypes

MFS

1245 1246 1247

DJH 1761 ✓ 4

1758 1759 1760 1761

JCH 1554 ✓ 3

1552 1553 1554

M. F. Smith
1979-1996

Journal

1981-1982

Calif: Yolo, Placer, Calaveras,
San Joaquin, Lassen Cos.

M.F. Smith

1981

JOURNAL

0.5 mi. N Madison, Yolo Co., California

Dec. 12

I met Jim and Carol Patton at MVZ about 8:45 am. We will head north first, then plan to trap along the foothills for Thomomys bottae. Drove north ^{east} on 80, north on 505, then west on highway 16 to Madison. Set out traps along the edge of a field with turnips or sugar beets. The clay soil was very sticky - it quickly covered our boots and pants. I caught 2 gophers out of 11 sets. We caught a total of 11 animals. One was kept alive to get spleen cells after we got to the motel. We finished processing about 7:30 pm and had dinner.

3 mi. E. and 1 mi. S Lincoln, Placer Co., California, 500 ft.

Dec. 13

After breakfast we drove towards Auburn. Checked along the roads for signs of gophers. Nothing around Newcastle or Penryn, but finally saw some mounds in the field of a ranch on Sierra College Blvd. east of Lincoln. Set out all the traps and checked them a couple times before going into Lincoln for lunch. Again a drizzly day, very slow gopher activity even though there are lots of mounds.

Activity picked up late in the afternoon. We caught a total of 22 gophers, keeping three

M.F. Smith
1981

JOURNAL

3 mi. E, and 1 mi. S. Lincoln, Placer Co., California, 500 ft.

Dec. 13 alive for spleen cells. Left the area around 5:00 pm. Drove through Auburn to Placerville and found a motel. Processed the blood and put up nineteen animals, then had dinner. After dinner did the three live animals. Got to bed about 11:15 pm.

1.5 mi. N Plymouth, Amador Co., California, 950 ft.

Dec. 14 After breakfast we drove south on ^{highway} 49 from Placerville. Stopped at a ranch right along the road and got permission to trap. Looked like a lot of activity but not much after we got the traps out. By 2:30 pm we had 12 animals. Got 16 altogether, one alive for spleen cells. Drove to Jackson to get a motel. Finished processing blood and stuffing animals by about 7:00 pm. Went out for dinner, then did the one live animal.

2.5 mi NW Angels Camp, Calaveras Co., California, 1200 ft.

Dec. 15 Left Jackson about 8:30 am. Drove south on highway 49 towards Altaville and Angel's Camp. Stopped at one house but the woman there said we would have to ask her husband for permission. Couldn't find him so drove down a side road, ^{Cosgrave Rd.} to the end and got permission to trap in the fields there. Again a slow day, although I got 6 animals here. We got fourteen altogether, with 3 alive.

M.F. Smith
1981

JOURNAL

2.5 mi. NW Angels Camp, Calaveras Co., California, 1200 ft.

Dec. 15

We were finishing as it got dark. Got a motel in Angels Camp. Processed the blood, the live animals, and finished skinning. Then went into town for dinner.

2.7 mi. N. Farmington, San Joaquin Co., California, 400 ft.

Dec. 16

It was clear in Angels Camp in the morning but foggy as we drove down into the Valley on highway 4. Found some good fields north of Farmington. Had the traps out before 11:00 am. Again slow at first. Finished up in the dark, but did get 17 gophers here. We did not save any of the live animals for spleen cells from this locality. Drove to Pleasanton and processed the blood and skinned the animals at my house. Jim and Carol stayed overnight with us and then ^{they} set out on Thursday morning to do some more trapping. All of the gophers from this trip have Jim's field numbers.

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Susanville, Lassen Co. California

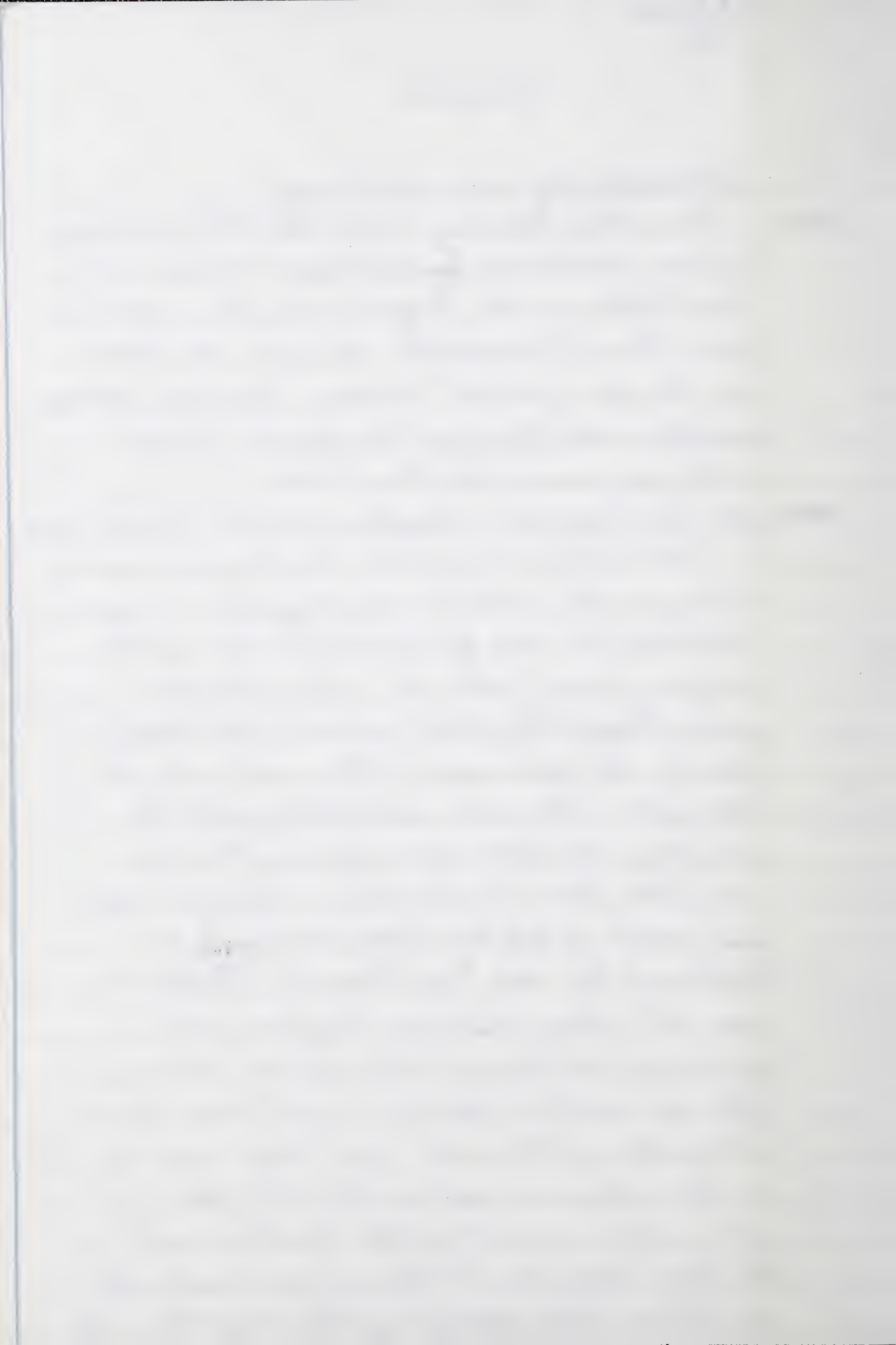
Mar. 21

Maria Gloria Basañez and I took the Trailways bus from Oakland to Sparks, Nevada. Met Jim and Carol Patton at the Nugget in Sparks and drove from there to Susanville. We plan to collect in the zone of contact between Thomomys bottae saxatilis and Thomomys townsendi relictus in the area around Gold Run Creek.

Mar. 22

Gold Run Creek, 3 mi. S Susanville, Lassen Co., California, 4240 ft.

Drove out from Susanville to get permission to trap in the contact area. Stopped at a house on Richmond Rd. and found out the owner of the property lived farther on so drove to their place - Happy Valley Ranch, owned by the Nagel family. Got permission to trap and a key to the gate on the dirt road leading into the property. The dirt road shows on the topo map (~~at~~ Diamond Mtn. Quadrangle 7.5 minute series) just south of Gold Run Road, leading off of Richmond Rd. past Nagel Reservoir. Parked the van at a large shelter for hay bales and split up to set traps. Carol and I set between the van and the road, Jim and Maria Gloria set farther up the creek. Jim Nagel came by in the afternoon and I rode with him to see another possible field to set in next to Nagel Reservoir. He also got permission for us to trap the neighbor's field on the other side



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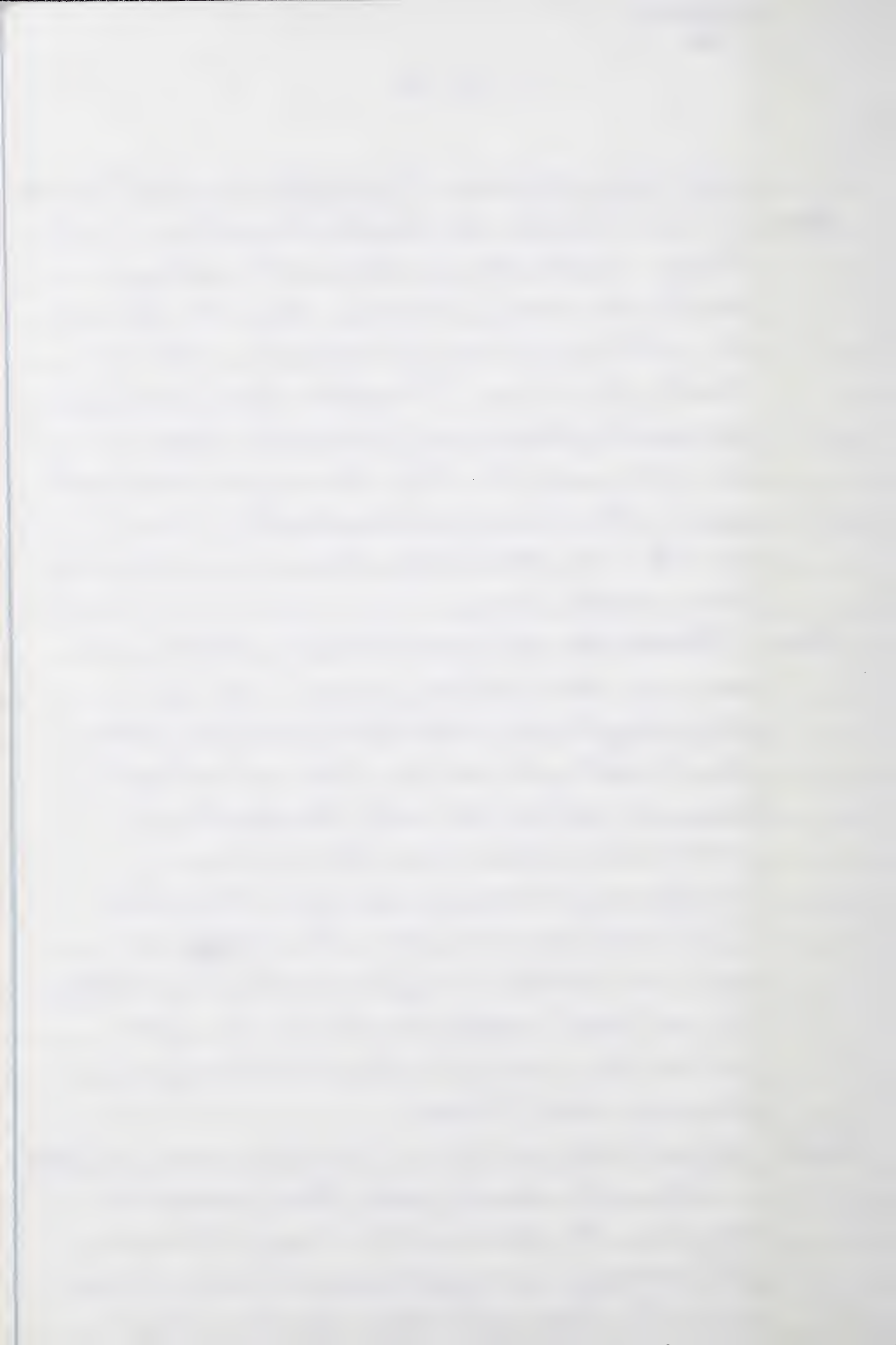
Gold Run Creek, 3mi. S Susanville, Lassen Co., California, 4240ft.

Mar. 22 of Richmond Rd. We caught 20 gophers today. (7 females, 3 of them with embryos which we saved; 13 males). Got back to the motel and processed animals, with a break for dinner. Finished about 11:30 pm. We saved plasma only from the blood since we don't need the Est-1 locus from hemolysate - some of the alleles for that locus are too slow to score accurately because of interference from another locus.

Mar. 23 Checked holes that were left open yesterday and reset any that had been plugged. Only one set of plugged holes in the lower field I set yesterday. Then I went up to set the field next to Nagel's Reservoir. Set out ten sets. No animals so went back to have lunch about 1:00 pm. Finally caught three animals from that field. Left holes open overnight. The other had caught 22 animals, so we got a total of 25 for today. Jim and Carol caught several in the field on the other side of Richmond Rd. We finished skinning about 12:30 am.

Mar. 24 Gold Run Creek, 3mi. S, 0.5 mi W Susanville, Lassen Co., Calif., 4320ft.

This is the locality for the three animals I caught in the field next to Nagel's Reservoir. This morning we dropped Carol and Maria Gloria off at the fields across the road from Nagel's



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Gold Run Creek, 3 mi. S, 0.5 mi. W Susanville, Lassen Co, California, 4320 ft

Mar. 24

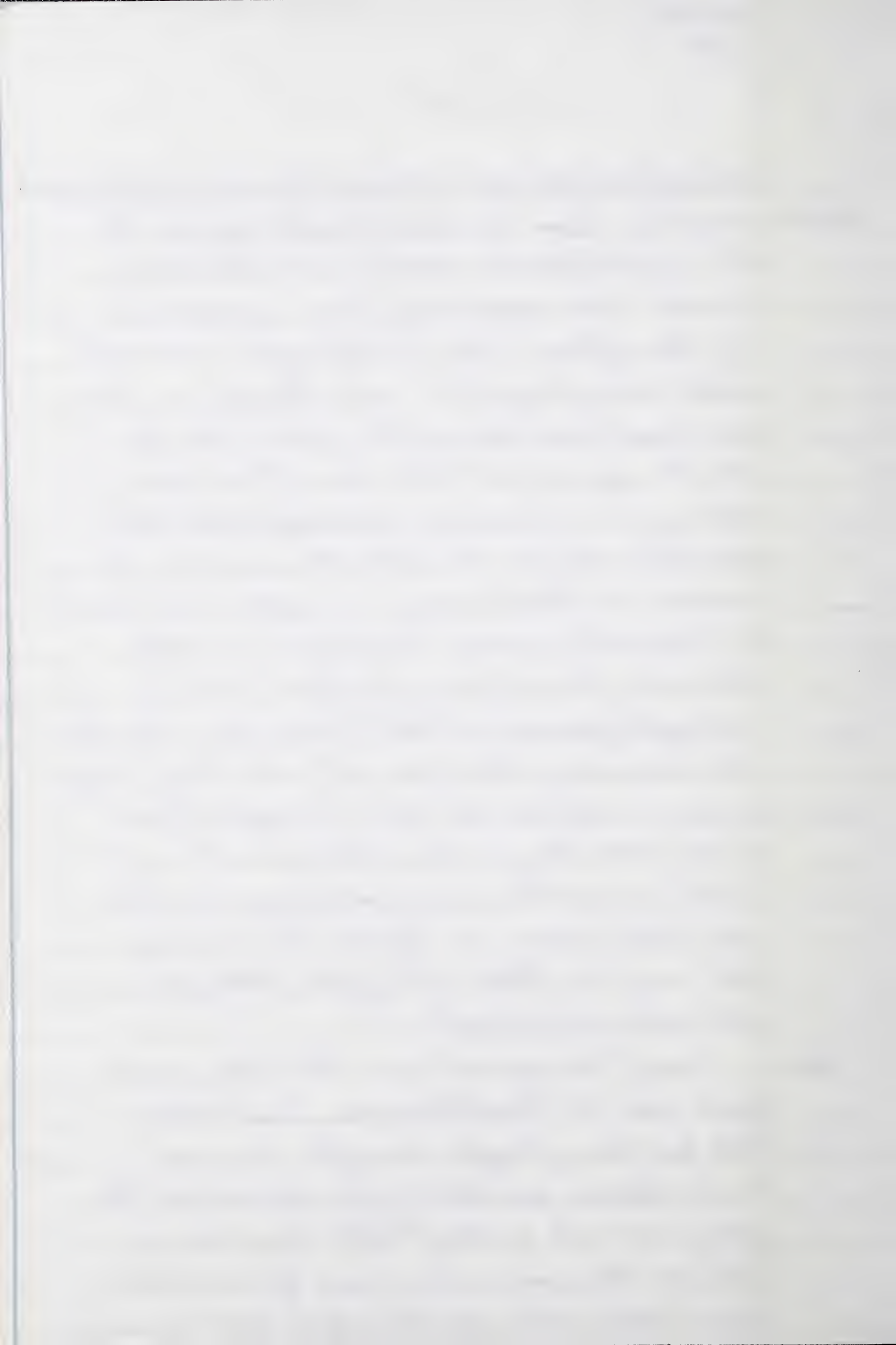
property. Then Jim drove up to drop me off at Nagel's Reservoir and he went back down to work the remaining lines in between.

Of the fifteen holes I left open overnight eight were plugged, I reset those as well as two fresh mounds in the field. Then I set the mounds at the base of the bank holding in the reservoir. I caught two dead animals early in the afternoon, and two live animals at about 3:00 pm. I walked back down to the car to process those four animals.

At about 5:30 pm Jim and I drove back up to Nagel's Reservoir. I had three more animals. The remaining holes Jim set with live traps so they could be left open overnight. Much of the activity in this field seems to be at night or in the early morning. On the way back down we checked Jim's traps. We caught a total of ~~27~~³¹ gophers today (three still alive to take back).

Mar. 25

Caught one animal in a live trap in the field next to Nagel's Reservoir. Reset those that had been plugged overnight. Carol and Maria Gloria were looking for mounds in the fields west and south of Nagel's Reservoir. I followed the road around and found a wire fence that would prevent us from driving across



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Gold Run Creek, 3 mi. S Susanville, Lassen Co., California, 4240 ft.

Mar. 25

To the other side of Gold Run Creek from this direction, Jim arrived at the fence with the van and we decided to pick up the others and drive the long way around to the other side. We got permission at the Sella ranch but found very little gopher sign - mostly ground squirrels. Jim and I each set out three sets. I dropped Carol off at the motel and went back to Nagel's Reservoir. Set several fresh mounds and caught six more animals in the area before pulling traps at ~4:00 pm. Then drove over to the other side to pull the remaining traps. Jim caught one gopher at Sella's. I had walked across the creek on the dirt road above Nagel's and set three traps just on the other side of Gold Run Creek. I caught one gopher there. Went back to the motel and processed the seven animals (plus one kept alive). Since there was very little activity in the fields on the north side of the creek we decided we had collected everything we could in the contact zone. Jim decided to use one general locality for all the samples, with individual captures plotted on the topo sheet. My locality for the field next to Nagel's Reservoir will have to be changed.

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Gold Run Creek, 3 mi. S Susanville, Lassen Co., California, 4240ft.

Mar. 26

Packed up in the morning and headed west on Highway 36 over the mountains. It was snowing at the higher parts of this route. We had hoped to trap near Red Bluff but the van had an engine problem so we came directly back to the Bay Area.

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that this is crucial for ensuring the integrity of the financial system and for providing a clear audit trail. The document also mentions that this practice is essential for identifying any discrepancies or errors in the data.

It further states that the records should be kept up-to-date and that any changes should be made immediately. This is to ensure that the information is always current and reliable. The document also notes that this is a key requirement for any system that handles sensitive financial data.

In conclusion, the document stresses that maintaining accurate records is a fundamental responsibility of anyone involved in financial management. It is a task that requires attention to detail and a commitment to transparency.

Transaction Details		Account Information	
Date	Description	Account Number	Balance
2023-10-01	Initial deposit	123456789	\$1000.00
2023-10-05	Withdrawal	123456789	\$950.00
2023-10-10	Transfer	123456789	\$900.00
2023-10-15	Deposit	123456789	\$950.00
2023-10-20	Withdrawal	123456789	\$900.00
2023-10-25	Transfer	123456789	\$850.00
2023-10-30	Deposit	123456789	\$900.00
2023-11-05	Withdrawal	123456789	\$850.00
2023-11-10	Transfer	123456789	\$800.00
2023-11-15	Deposit	123456789	\$850.00
2023-11-20	Withdrawal	123456789	\$800.00
2023-11-25	Transfer	123456789	\$750.00
2023-11-30	Deposit	123456789	\$800.00
2023-12-05	Withdrawal	123456789	\$750.00
2023-12-10	Transfer	123456789	\$700.00
2023-12-15	Deposit	123456789	\$750.00
2023-12-20	Withdrawal	123456789	\$700.00
2023-12-25	Transfer	123456789	\$650.00
2023-12-30	Deposit	123456789	\$700.00

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1979-1996

Journal

1993

Uruguay: Depto. Maldonado

Argentina: Prov. Rio Negro

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Montevideo, Uruguay

Nov. 16

Left San Francisco at 1:40pm on Saturday, Nov. 13, and arrived in Montevideo around 3:00pm on Sunday, Nov. 14. The time in Montevideo is five hours later than in California.

I was met at the airport by Enrique Lassa and Joe Cook. Joe is here for four months on a Fulbright to work with Enrique.

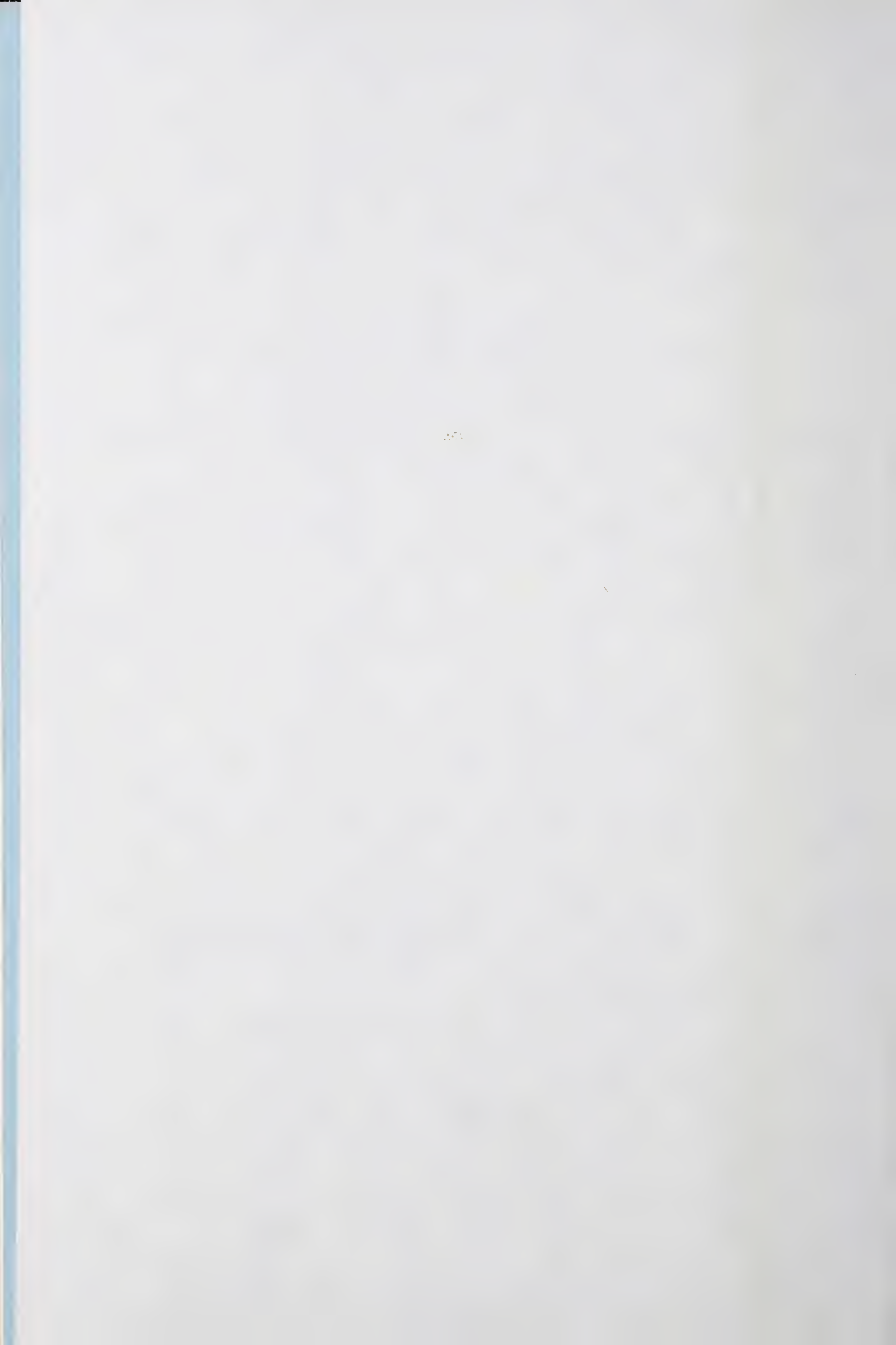
On Monday I talked with some of Enrique's students and several biologists at the Facultad de Ciencias, where Enrique has a position. On Tuesday I gave a talk in the morning about species boundaries - paralogy / polyphyly in Thomomys.

Later we continued our work gathering up supplies for a field trip, stringing the Museum special traps I brought for Enrique, and trying to figure out logistics.

Nov. 18

El Peñasco, ~ 5 km N of Maldonado, Depto. Maldonado, Uruguay

The original plan was to take a bus to Maldonado on Wednesday afternoon. However, there was a big storm on Tuesday night, with many trees blown down in Montevideo, and heavy rains, continuing on Wednesday. Enrique thought it would be better to wait until Thursday morning to leave for the field. On Wednesday afternoon Guillermo



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El Peñasco, ~5 km N of Maldonado, Depto. Maldonado,
Uruguay

Nov. 18

and I were driven by Tito in the Nissan that belongs to the department to buy dry ice at an ice cream factory (about \$30.00 US for a small piece \approx 30 kilos). We also filled one of the 10 liter liquid nitrogen tanks at the Casa de Inseminario, which cost about \$25 US. I stayed at Enrique's house on Wednesday night since I had already checked out of the hotel in preparation for the field trip. Joe Cook rented a car and moved his family and visiting relatives to the beach house at Alpina, leaving room for me at Enrique's house.

On Thursday morning Tito picked us up at Enrique's house in the departmental vehicle. Two of the students rode along in the vehicle, and three took the bus that same morning to Maldonado. We drove to El Peñasco, the house belonging to the grandfather of Maria Luz, and dropped off our ^{personal} gear to make room in the vehicle. The house was enormous, with large grounds, fruit orchards, trout raising ponds, and a view of the Arroyo Maldonado.

We picked up the students at the bus station in Maldonado and drove east

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Nov. 18

El Peñasco, ~5 km N of Maldonado, Depto. Maldonado,

Uruguay

along the coast towards San Ignacio looking for mounds of tucos tucos (Ctenomys pearsoni) in the sandy dunes along the coast. We set a few Macabee traps east of the mouth of the Laguna San Ignacio, then drove north and located a farm with tucos about 5 km N of the lighthouse of San Ignacio.

Here we found quite a few tucos mounds in one pasture, and Enrique and some students also set traps in the owner's lawn. In the field we found the skin of an armadillo; and also an amphibian in a Ctenomys burrow.

After we finished at the farm we also set some traps about 7 km farther north. We caught 11 Ctenomys during this day, in spite of the rain and wind.

We drove back to the house in the late afternoon. We split into two groups to set traps for sigmodontines. We had 100 Museum special snap traps and 30 wire cage live traps on loan from a local group, one of whom was along on the field trip. One group set traps in a

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry must be clearly documented, including the date, amount, and purpose of the transaction. This ensures transparency and allows for easy verification of the data.

Furthermore, the document outlines the procedures for handling discrepancies. If there is a difference between the recorded amount and the actual amount, it is crucial to investigate the cause immediately. This could be due to a clerical error, a misunderstanding of the transaction, or a potential fraud. Once the cause is identified, the records should be corrected, and the necessary steps should be taken to prevent such errors from recurring.

The second part of the document focuses on the role of the accounting department in providing financial information to management. It states that the accounting department is responsible for preparing financial statements that provide a clear and concise overview of the company's financial performance. These statements should be reviewed by management to ensure that they accurately reflect the company's financial position and to identify any areas that require attention.

In addition, the document highlights the importance of maintaining up-to-date financial records. This involves regularly updating the records with new transactions and ensuring that all records are properly filed and organized. By maintaining accurate and up-to-date records, the accounting department can provide management with the information they need to make informed decisions about the company's financial future.

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Nov. 18

rocky ~~the~~ area and along the edge of a field, working downhill from the house. The other group walked to the end of the driveway and set 10 traps in the bushes at the entrance, and the rest across the road between the abandoned railroad tracks and the edge of a pasture, a strip about 10 meters wide; there was a raised strip with water along the low edge. We checked the traps at about 11:00 pm. One animal in a snap trap in the bushes at the end of the drive.

It looked like Mus to me, but it needs to be identified. We had no keys to go on there, and the collection had been locked when I had tried to look at it at the Facultad.

We ate dinner around midnight. Tito had cooked a delicious stew.

Finished processing animals around 2 am.

For the Ctenomys Enrique's group is karyotyping, taking tissues, and making skins and complete skeletons. For any cricetines (sigmodontines) we are taking tissues to split between Enrique's collection and the other half to be a permanent loan to MVZ.

The first part of the paper discusses the importance of the study of the history of the English language. It is pointed out that the English language has a long and varied history, and that it is important to understand its development in order to use it correctly. The second part of the paper discusses the importance of the study of the history of the English language. It is pointed out that the English language has a long and varied history, and that it is important to understand its development in order to use it correctly. The third part of the paper discusses the importance of the study of the history of the English language. It is pointed out that the English language has a long and varied history, and that it is important to understand its development in order to use it correctly. The fourth part of the paper discusses the importance of the study of the history of the English language. It is pointed out that the English language has a long and varied history, and that it is important to understand its development in order to use it correctly. The fifth part of the paper discusses the importance of the study of the history of the English language. It is pointed out that the English language has a long and varied history, and that it is important to understand its development in order to use it correctly. The sixth part of the paper discusses the importance of the study of the history of the English language. It is pointed out that the English language has a long and varied history, and that it is important to understand its development in order to use it correctly. The seventh part of the paper discusses the importance of the study of the history of the English language. It is pointed out that the English language has a long and varied history, and that it is important to understand its development in order to use it correctly. The eighth part of the paper discusses the importance of the study of the history of the English language. It is pointed out that the English language has a long and varied history, and that it is important to understand its development in order to use it correctly. The ninth part of the paper discusses the importance of the study of the history of the English language. It is pointed out that the English language has a long and varied history, and that it is important to understand its development in order to use it correctly. The tenth part of the paper discusses the importance of the study of the history of the English language. It is pointed out that the English language has a long and varied history, and that it is important to understand its development in order to use it correctly.

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El Peñasco, ~5 km N of Maldonado, Depto. Maldonado,
Uruguay

Nov. 19

Enrique, Joe, and I were the first ones up. Had Tea and a roll, then went to check the traps. Enrique checked the lines he had set with the student near the house, and Joe, Guillermo, and I checked those near the railroad tracks. Near the tracks we got three more animals. These have a long pointed snout and may be Opymycterus. One appeared to be larger, two smaller, one of which may be a juvenile. All 4 animals caught during the night were in snap traps rather than in the wire cage live traps.

Many of the snap traps were set off, either by the rain or other activity. All of the snap traps were new ones that had never been used before. We also had 8 Victor rat traps, which didn't catch anything.

We split the group, with most people kangotyping Ctenomys that had been injected with yeast the previous day, and also taking tissue and skinning the crickets. Enrique, Federico and I

drove out with Tito to trap more Ctenomys. We drove along a more inland road to see if there were animals there, but didn't see any very far inland.

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El Peñasco, ~5 km N of Maldonado, Depto. Maldonado, Uruguay

Nov. 17

We set traps for tucos in the vicinity of 1 km W of the mouth of the Laguna de Rocha, in Depto. Rocha. The first field we set in was very much like trapping Thomomys in the US, although with very sandy soil. The mounds are similar, as is the construction of the burrows and the method of setting the traps. Additional sites were closer to the ocean next to sand dunes.

The weather was much better on this day. We saw lots of birds near the Laguna de Rocha, including jacanas, caquchín gulls, & black necked swans. Lots of migratory birds come to the lagoons and marshes in this area. We also saw 3 Rhea americana in a field during the day. Driving back to the house we saw nutria near the edge of a pond, and Cavia running across the road. The Cavia are very dark in color, somewhat larger than Ctenomys. There were many of them running across the road and along the edge of the road in the grass.

When we got back to the house we packed up as quickly as possible because we

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Nov. 19

were supposed to get back to the Facultad by 10 p.m. Some people are staying another night at the house, and they set the 50 snap traps and 8 Victor traps that I brought to Enrique, so they may catch some more mice after we leave.

The members of the field party included Joe Cook from the University of Alaska, Enrique Iossa, Guillermo D'Elia ~~and~~ (a masters student of Enrique's), Mariana Cosse, Federico Hoffman, and Ana Luz Porzecansky, who are undergraduate students at the Facultad, and Gustavo, who belongs to a local group that is interested in collecting mammals. Noel Cottina, Enrique's other masters student at the moment, was unable to go on the trip.

On the way back we got to the outskirts of Montevideo at 10 p.m. They called the Facultad to be sure someone would be there to open the gate, which is locked at 10 p.m. No one was there, so we had to revise the plan. We left the live Tucos at Federico's house and Tito dropped us off at Enrique's house with all my gear. Enrique arranged to borrow his

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El Peñasco, - 5 km N of Maldonado, Depto Maldonado, Uruguay

Nov 19

father's car in the morning so we could go to the Facultad to deal with the frozen tissues. We went to a cafe to get a sandwich around midnite, and got about 4 hours sleep.

~~Nov~~

Montevideo, Uruguay

Nov. 20

We got up about 5 am. Enrique took a taxi to get his father's car and to finish packing. We drove to the Facultad and emptied the nitrogen tank so we could sort the tissues. Enrique is loaning us part of the tissues (one kidney, a piece of liver, and a piece of heart), from the four animals we trapped near Maldonado.

This is the general vicinity of the type locality for several species, since Darwin collected here during the voyage of the Beagle. He is also sending one of the skins to MVZ.

Enrique drove me to the airport for the flight to Buenos Aires. The downtown airport, Jorge Newbery, was much better than Ezeiza - less crowded, and the luggage came very quickly.

Arrived in Bariloche, Argentina on schedule on Saturday afternoon and was met by Paynie and Anita Pearson.

Dr. Enrique Lessa

Dr. Joe Cook

Guillermo D'Elia

Master's student

Mariana Cosse

undergrad

Federico Hoffman

just graduated

Ana Luz Porzekansky

undergrad

Gustavo

uncertain

Noel Cortinas

Master's student

Aroyo

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Bariloche, Rio Negro Province, Argentina

Nov. 21

When I arrived I got settled in an apartment in the building next to the Pearson's, and had dinner at their apartment. This morning we drove towards Cerro Otto, and hiked to the top along a path through Nothofagus beech forest. In a field along the road on the way we had stopped to examine mounds of Ctenomys mendocinus. In the forest we saw evidence of digging and snow cores of Chelomys, especially in patches of wild lilies.

From the top of Cerro Otto there is a good panoramic view of the region. Payne and Anita pointed out several "micro localities" around Bariloche where they have caught either "Akodon" xanthorhineus or "Akodon" olivaceus. A. olivaceus is a forest animal extending to the west into Chile, while A. xanthorhineus is a steppe animal extending to the east of Bariloche. We are interested in collecting samples of tissues to be able to do protein electrophoresis as well as DNA sequencing in the region where the two apparently distinct morphological forms come in contact. Some animals appear to be

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Bariloche, Rio Negro Prov., Argentina

Nov. 21

somewhat intermediate morphologically. The cytochrome b sequence I have so far is almost identical between A. shivaei and A. xanthorhynchus collected near the intergrade region. We need information on the nuclear genome to help determine whether the two types differ in nuclear genes, perhaps with introgression of the mitochondrial genome from one type into the other. We also need a reference sample of A. xanthorhynchus from farther away to check the mitochondrial DNA sequence.

In the late afternoon we drove out to a site 4.2 km E of Bariloche, which we will call Las Victorias. The area has been marked off into lots that are for sale. We set three trap lines in steppe habitat, trying especially to set in bunch grass, which should be habitat for "A. rhodon" xanthorhynchus. Pagnie and Anita felt that the habitat turned out to be a bit moist for A. xanthorhynchus, but we'll see. We set about 100 Sherman traps, baited with rolled oats and corn meal. We didn't set any of the snap traps because we won't have any liquid nitrogen until tomorrow, when we have an appointment to go to the Centro Atomico with Adrian Morneau to get liquid nitrogen.

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Las Victorias, 4.2 km E Bariloche, Prov. Rio Negro, Argentina

Nov. 22

We went out at 6:50 am to check traps.

We caught 10 animals out of ~95 Sherman traps.

3 Eligmodontia morgani

2 Oligoryzomys longicaudatus

2 Auliscomys micropus

2 Abrothrix longipilis

1 "Akodon" xanthorhinus

One Oligoryzomys escaped, and we released the two Abrothrix longipilis. The other animals we took back to process.

At 9:00 am we drove to Estero, Rapaport's ecology institute. We got a message there to pick Adrian Monjeau up on the way to the Centro Atomico. We were able to get 10 liters of liquid nitrogen from Scotti, who works there.

We processed the animals in the afternoon, saving tissues (kidneys, liver, and heart) in liquid nitrogen, plus a piece of liver in alcohol as a backup for sequencing. We made skins and skulls for at least one specimen of each taxon, and preserved one Eligmodontia in formalin.

After dinner we drove out to the west of Bariloche to set traps near an area that had burned a few months ago. We are calling the site Pampa Quemada. I set my traps under bushes on the edge of a grassy area.

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Bariloche, Prov. Rio Negro, Argentina

Nov. 22

Anita also set in bushes with grass nearby. We thought we might get "Akodon" olivaceus there. Payne set more out in the open near open tree holes, hoping to catch "Akodon" xanthorhineus. We finished setting traps at about 9:00 pm, just as it was getting dark.

Nov. 23

We drove out in the morning to check the traps at Pampa Quemada. We had 97 traps out and caught 11 animals.

- 1 Eligmodontia morgani
- 7 Abrothrix longipilis
- 1 Oligoryzomys longicaudatus
- 2 Auliscomys micropus

The Eligmodontia was the only animal out in the open where Payne had hoped to get A. xanthorhineus.

We drove back to town and unloaded the animals. Payne went out at 11 am to set 22 Sherman traps in the meadow at Cerro Runge, across the road from the gravel road that goes up Cerro Otto. At 5 pm we checked those traps in the meadow. There were 2 Abrothrix longipilis, which we released away from the meadow.

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Bariloche, Prov. Rio Negro, Argentina

Nov. 23

We drove out along the road to Colonia Suiza to a spot near Lago Perito Moreno where the Pearsons had caught 6 or 7 A. olivaceus a few weeks ago. I set my line of 35 Sherman traps (5 of them small traps) in bushes on the edge of grassy areas near a creek leading into the lake. When I walked back along the line I had already caught 2 animals, both A. olivaceus. I caught a third A. olivaceus soon after that. It seems that this species is active in the daytime, or at least late afternoon. Paynie caught 1 Abrothrix ^{olivaceus} ~~olivaceus~~ ~~too~~ and 1 Oligoryzomys longicaudatus before we left that evening. We also had 4 steel traps set for Tucu Tucos near the burned area. We had a picnic supper in a beautiful spot by the lake before the final trap check for the evening.

Nov. 24

Drove out at 7:30 am to check the traps near Lago Perito Moreno on the road to Colonia Suiza. Out of ~~38~~ ~~119~~ 119 traps we caught 21 animals, plus the ones from yesterday afternoon.

Abrothrix olivaceus 1

Oligoryzomys longicaudatus 11

Abrothrix longipilis 8

Auliscomys micropus 1

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Bariloche, Prov. Rio Negro, Argentina

Nov. 24

We didn't catch any animals in the two traps near the burned area.

In the meadow at the base of Cerro Runge in Paynie's 22 Sherman traps there were

6 Abrothrix longipilis

1 Abrothrix olivaceus

1 Oligoryzomys longicaudatus.

We processed the live animals when we got back to the apartment. After lunch I took tissues and made complete skeletons of some of the animals from the snap traps.

At 4:30 pm Paynie and I went out to set traps in a clearing above the road up to Cerro Otto. We alternated Shermans and snap traps, about ²⁴ ~~20~~ of each. This habitat is mixed, with some steppe plants and some plants of the moister forest. We will call this east knoll of Cerro Otto.

Nov. 25

Drove out at 7:30 am to check the 48 traps on the east knoll of Cerro Otto. We got 2 animals:

1 Eligmodontia morgani

1 Abrothrix xanthorhina

Both were in snap traps on the north facing slope. The xanthorhina looks like a typical representative of that type. Across the road only about 400 meters away we can see the meadow where we got a typical A. olivaceus.

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Bariloche, Prov. Rio Negro, Argentina

Nov. 25

We packed up the camping gear and left town about 11:00 am to drive east of Bariloche on graded gravel road to Comallo, then 10 km south to where the Pearsons had seen mima mounds before. We set up the tent along a dirt road a little ways off the highway (= gravel road). We set off in three different directions to set traps - set all the Shermans and snap traps.

Peg 26 large Shermans, 37 snap traps. Anita 30 large Shermans and 30 snaps. Paynie set 56 near the mima mounds.

10 km S Comallo, 2900 ft., Prov. Rio Negro, Argentina

Nov. 26

We checked traps once before dark last night, and Anita had caught 1 Abrothrix xanthorhina, 1 Eligmodontia morganii, and 1 Phyllotis so these animals were all active in daylight.

We checked traps first thing in the morning, and found that the majority of the "Abodon" looking animals are some other species rather than "Abodon" xanthorhina. One possibility is A. iniscatus, but Paynie doesn't think all the features quite match that species. Since we are interested in getting a good series of A. xanthorhina for reference we decided to head back west towards Bariloche to trap the second night, hoping to get more A. xanthorhina. We brought in our traps, and several more

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10 km S Comallo, 2900 ft., Prov. Rio Negro, Argentina

Nov. 26

animals had been caught in daylight. The totals for this site were as follows:

10 Eligmodontia morgani

2 Phyllotis

3 Abrothrix xanthorhina

11 Akodon sp

2 Reithrodon auritas

Out of 179 traps we caught 28 animals. We broke camp and drove back through Comallo, stopping for cold drinks. We chose a new site for trapping along a dirt road off the main gravel road, a few miles from the agricultural station fenced area. We saw three rheas ^{near} ~~on~~ the road as we drove in. Set all the traps, heading out in various directions. Set in bunch grass and sparse bushes, denser shrubs, and along the edge of a wetter marshy meadow. A gaucho rode up on his horse at 7 or 8 pm to see what we were doing. Paynie had a conversation with him, but had trouble understanding his speech. He knew less about the animals than many local people Paynie has talked with. The gaucho supplied the name Campo General Roca.

We checked the traps before going to bed but there were no animals.

It was overcast during the night so it wasn't as cold sleeping out.

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Campo General Roca, Prov. Rio Negro, Argentina

Nov. 27

We got up before 6 am and checked the traps fairly early. No one caught anything here, although the vegetation had looked good. We packed up and headed back to Bariloche, getting back around noon.

In the afternoon we processed the live animals that we still had left from Comallo.

We considered various options for the next locality and decided that we would drive to Tronador on Sunday to try for A. olivaceus at the western end of a transect in Argentina. We chose this as the first option because trapping at Puerto Blest is more complicated logistically, involving taking the traps, liquid nitrogen tank, etc. on the tour boat to Puerto Blest.

Rio Castaño Overo

Nov. 28

We left Bariloche at about 10 am for the drive to Tronador. Some rain on the way, but the weather was changing rapidly so we decided to go ahead and see what it was like. On the drive in, near Hotel Tronador, the Pearsons spotted Sigfrido Rubulis, who is a climatologist and glaciologist sponsored by CONICET. Payne asked him if he knew where Julio Contreras had trapped, which would be the type locality for "Ahodon" mansoensis. He said it was at the stream gauging station right

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Rio Castaño Overo,

Nov. 28

near his house, which was a different site than the stream gauging station Paynie had scouted out earlier.

We decided to drive as far as we could along the side road beyond Pampa Lindo to set up camp for the first night, and stop to try for "Ahodon" mansoensis on the way back out the second night. It is not clear that mansoensis is anything other than "Ahodon" livaceus.

We reached a point on the road where a small creek ran across, and decided not to try to drive past it. Set up the tent and set out our traps in intermittent showers. I set 30 large Shermans and 30 Museum specials, Anita set 28/28, Paynie set 21 Shermans and 36 Museum specials.

Nov. 29

During the night there was heavy rain, turning to snow. When we went out to check the traps there was much more water everywhere. We had to wade through puddles to get the traps. We were pretty wet and cold by the time we had checked the traps. Many traps were sprung by the rain, but ~~we~~ we did catch quite a few animals.

Abrothrix longipilis 5 + 1 wet animal, probably longipilis

Abrothrix olivaceus 3

Geoxus valdiv 2

Auliscomys microps 3

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Rio Castaño Over,

Mon Nov. 29

We processed the animals in the car, occasionally running the heater to warm up the car a bit. Then packed up and started to drive out the road. At the first big mudhole we cut branches to fill in where the wheels would go, and Payne drove through that hole fairly easily. Farther on, however, we failed to check ~~the~~ a puddle before driving through, and the car sank in deeply, with the car tilted to the left and the water up to the top of the left front wheel. Payne set off in the snow towards Pampa Linda, where there was a park guard station and the restaurant where we had eaten lunch. Anita wanted to stay with the car, so it stayed with her. We had a snack and waited there for an hour or more, then decided to pack up some gear in case we ended up staying overnight at the hosteria and walked towards Pampa Linda. Just as we got there we met Payne with a park guard and a man with a horse. The first attempt with just a rope around the horse's neck was not effective. A second attempt with more park workers and a saddle and cinch arrangement on the horse was just getting organized when the red jeep belonging to someone connected to the family at the restaurant arrived. The jeep

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Rio Castaño Overo

Nov. 29

was able to pull the van out on the first try. It was too late to drive up to see the glacier today because the traffic is one way going down after 4pm, and we needed to get to our next site to get the traps out.

We drove down a gravel road past a quarry to a cow pasture along the upper Rio Manso just above where the river flows into Lago Mascardi. Paynie thinks this is only a kilometer or so from Julio Contreras' type locality for A. mansoensis.

Much of the area seemed to be overgrazed, but we set in bushes near as much tall grass as possible. We set 165 traps. Paynie grilled steaks for dinner. During the night we had snow again, even though we were farther east, and lower in elevation. This kind of storm is unusual this late in the spring (equivalent to the end of May in the US).

Lago Mascardi (west end), Prov. Rio Negro, Argentina

Nov. 30

In spite of the snow we caught several animals here:

- 9 - Abrothrix olivaceus (same thing as mansoensis?)
- 1 - Oligoryzomys longicaudatus
- 1 - Abrothrix longipilis

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Lago Mascardi (west end), Prov. Rio Negro, Argentina

Tues. Nov. 30

We spent the morning processing the animals, saving three alive in shermans to preserve in formaldehyde when we get back to Bariloche. After lunch we drove up to Tornador to see the Ventisquero Negro - black glacier, which is covered with dirt and rocks that have fallen from the surrounding rockfaces onto the glacier. At Cerro Tornador we hiked up the path as far as it was open to get a closer view. The rain and clouds obscured some of the mountain, but it was still impressive. We could hear the "thunder" from which the mountain gets its name as blocks of ice broke loose and fell in avalanches. Pagnie was the only one watching later when the largest chunk fell. After 4pm we could start driving in the downhill direction back to Bariloche. It was raining all the way to Bariloche, which again is unusual. This is an unusually wet year following several dry years.

Bariloche, Prov. Rio Negro, Argentina

Wed. Dec. 1

We did errands in the morning, then in the afternoon we drove out to the area next to the Hipodromo (race track) to look for suitable habitat. Although several houses are being built

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Bariloche, Prov. Rio Negro, Argentina

Dec. 1 in that area, we did find some open space to set traps. We set out about 96 traps, mostly the large Shermans because it was raining and the snap traps might get set off by the rain.

Dec. 2 We went out at 7:15 am to check the traps next to the racetrack (Hipodromo). We caught 10 animals, as follows:

- 1 Eligmodontia morgani
- 5 Abrothrix olivaceus
- 4 Oligoryzomys longicaudatus

We left the traps set, and came back to process the animals. In the afternoon we went back to Hipodromo and added snap trap lines to the Shermans already set.

Dec. 3 We went out at 7:15 am to check the traps at the Hipodromo and bring them in. We had 163 traps out and caught 12 animals. There was rain during the night and in the morning.

- 6 Abrothrix (xanthorhinus) olivaceus
- 1 Eligmodontia morgani
- 5 Oligoryzomys longicaudatus

We came back and processed the animals. In the afternoon we drove east of town looking for possible trapping sites for A. xanthorhinus. We ended up in the southwest corner of the

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Bariloche, Prov. Rio Negro, Argentina

Dec. 3 real estate development, Las Victorias. We had trapped earlier in a different section of Las Victorias. The area we set in today seemed to be undisturbed, rich steppe habitat.

We set out a total of 159 Shermans plus snap traps. It was cold, windy, and raining when we finished setting.

Sat Dec. 4 We went out at 7:30 am to check the traps at Las Victorias. We caught ³⁹40 animals, which was 25% trap success. This was our most successful night of trapping so far.

8 Abrothrix xanthorhina

7 Oligoryzomys longicaudatus

4 Eligmodontia morgani

15 Abrothrix longipilis

5 Auliscomys microps

We came back and processed the animals, leaving the traps set at Las Victorias. In the late afternoon, we went out and added more traps in the bunch grass area. Payne thought some of his traps may have been taken.

Sun Dec. 5 Went out to Las Victorias at 7:30 am to bring in the traps. Payne was missing several traps, and one Sherman had been taken from one of my lines. There were horse tracks nearby.

From the afternoon of Dec. 4 we had

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Bariloche, Prov. Rio Negro, Argentina

Dec. 5

2 Abrothrix longipilis and 1 Abrothrix xanthorhina.

On Sunday morning, Dec. 5, we had another 22 animals.

2 Reithrodon auritus

2 Auliscomys micropus

4 Oligoryzomys longicaudatus

2 Eligmodontia morgani

8 Abrothrix longipilis

4 Abrothrix xanthorhina

It was windy, with dark clouds, but no rain while we were out. We went back to town to process the animals after releasing the species we weren't after.

In the late afternoon we drove east to camp on Estancia El Condor and try for a more eastern sample of Abrothrix xanthorhina.

There was a nice green grassy patch to set up camp. We set traps in a bunchgrass meadow, across a hillside with bunchgrass and shrubs, and on a slope above a small creek; 160 traps total set out.

Mon Dec. 6

We got up at 6:00 am to check the traps. We caught a total of 48 animals.

23 Abrothrix longipilis

7 Abrothrix xanthorhina

13 Auliscomys micropus

3 Oligoryzomys longicaudatus

2 Reithrodon auritus

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Bariloche, Prov. Rio Negro, Argentina

Dec. 6

We released all except the Abrothrix
xanthorhina and drove back to town.
I processed the two dead Abrothrix
xanthorhina while Paynie talked with
Michael Cristie about their poster. At
11:00 am Paynie and I drove north past
the site where Eileen Lacy is studying
Ctenomys sociabilis and on to the
Trafal Valley. Paynie took a habitat shot
of one of the caves where they found amber,
similar to the woodrat amber in the western
US. We also climbed around at the entrance
to a cave where Michael Cristie had found
amber, trying to find a sample to show
with their poster. We didn't find any
very good examples. I got a picture of
the cave where Paynie has analyzed the
bones from owl pellets over the last several
thousand years. The weather was very good
today, the clearest day we have had.
After a week of rain that was very welcome.

When we got back to Bariloche we
processed the rest of the animals from
El Condor. Milton Hallardo was expected
at the Pearsons, but didn't show up today.

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Bariloche, Prov. Rio Negro, Argentina

Dec. 11

I attended the Argentine Mammal Society meetings in Bariloche Dec. 8-10. I presented a poster on akodontine relationships, based on our paper in press in the Biol. J. Linn. Soc. I had a chance to talk with several Argentine mammalogists, which worked out well. On Dec. 11 I left Bariloche for the flight home. I poured off all the liquid nitrogen from the tank at the airport in Bariloche.

When I reached San Francisco Gary met me and we went directly to Baker Hall to deal with the frozen tissues. They were still frozen solidly after 27 hours in transit.

	<u>Eligmodontia</u> <u>morgani</u>	<u>Akodon (Abrothrix)?</u> <u>xanthorhinus</u>	<u>Abrothrix</u> <u>longipilis</u>	<u>Oligoryzomys</u> <u>longicaudatus</u>	<u>Auliscomys</u> <u>micropus</u>	<u>Akodon (Abrothrix)?</u> <u>olivaceus</u>	<u>Akodon</u> <u>sp. iniscotus</u>	<u>Phyllotis</u> <u>xanthopygus</u>	<u>Reithrodon</u> <u>auritus</u>	<u>Geoxus</u> <u>valdivianus</u>	
22 1993 s Victorias	3	1	2	2	2						
Nov. 23, 1993 Campa Quemada	1		7	1	2						
Nov. 23, 1993 meadow at Cerro Runge			2								
Nov. 23, 1993 road to Colonia Suiza				1		34					
Nov. 24, 1993 road to Colonia Suiza			8	11	1	1					
Nov. 24, 1993 meadow at Cerro Runge			6	1		1					
Nov 25, 1993 10 km S Comallo	10	3					11	2	2		
Nov 26, 1993 Campo General Roca none Campo General Roca											
Nov. 28-29 Castaño Overo			6		3	3				2	
Nov. 30 Campa Mascardi			1	1		9					
2-3 podromo	2			9		11					
c 4-5 s Victorias	6	13	25	11	7				2		
Dec. 6 El Condor		7	23	3	13				2		
	22	24	80	40	28	29	11	2	6	2	= 244

Nov. 22 Paynie
2 Eligmo
1 Oligoryzomys

Peg
1 Eligmo

Anita
2 Auliscomys
1 Oligo
2 Abro longi
1 Abro xanth

Nov. 23 am Panga Quemada

OPP 31

1 Elig.
1 Abroth longi

MFS 33

3 Abro longi

AK 33

10 ligo
3 Abro longi
2 Auliscomys

OPP 22 Shermans in meadow Cerro Runge snap traps

11 am

at 5 pm had 2 Abroth longi (released)

Nov. 23 pm road to Col. Suiza

Peg 35 (5 small)

Peg 3 Abro. olivaceus 7-9 pm
OPP 1 Abro oliv.

1 Oligoryzomys
(4 trap sets out) - none get

Nov. 24 rd to Col Suiza

> Peg 35 (5 small shermans)

A. oliv 1 = 1

Oligoryz. 111 = 3

Abrothrix longi 1 = 1

> Anita 38 traps (11 snags)

Auliscomys juv 1 = 1

Oligoryzomys 11 = 2

Abrothrix longi 2 = 2

(One of the Oligoryzomys was in the repeater trap)

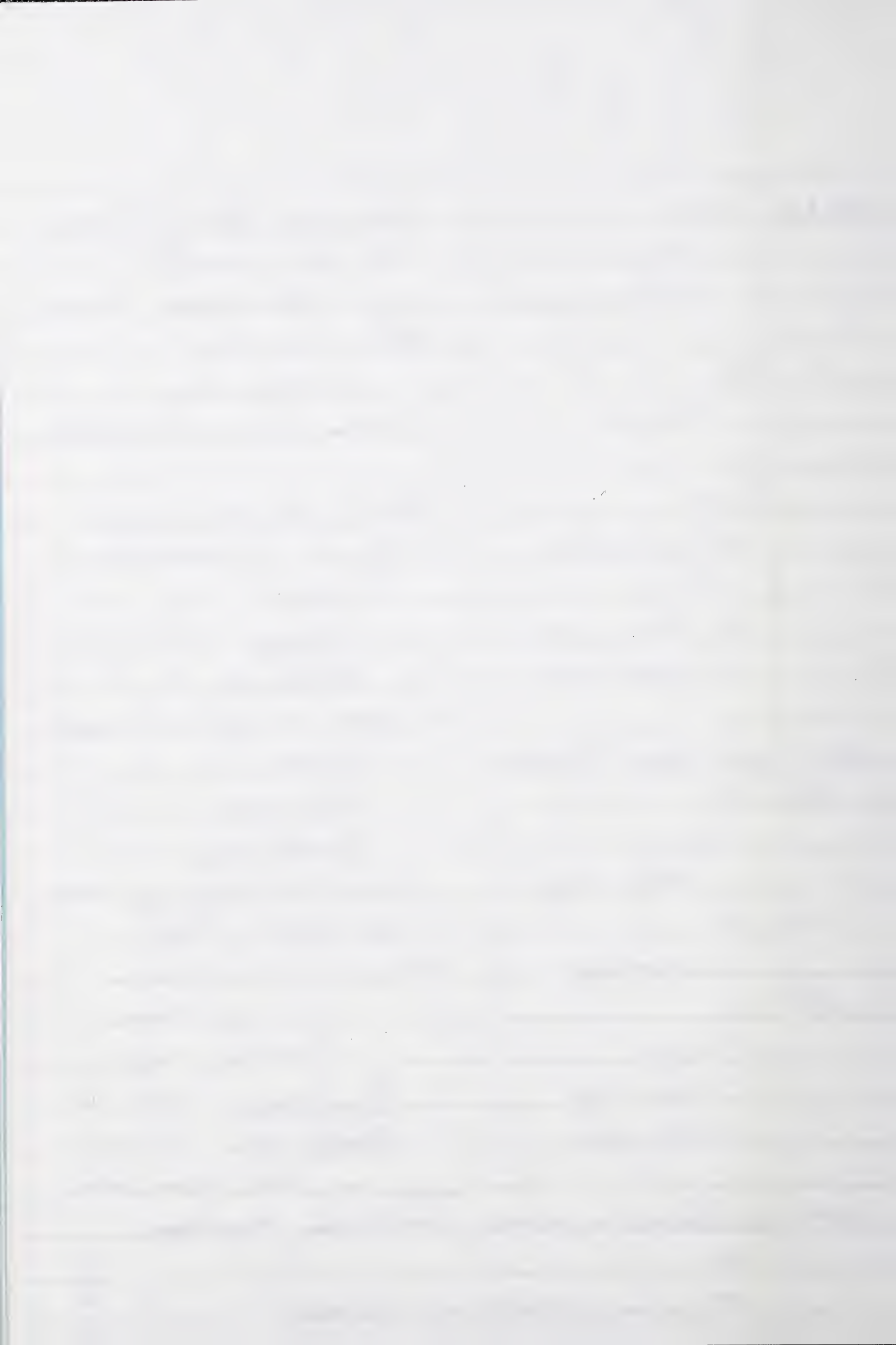
> Paynie { 16 small Shermans
6 large Shermans
24 snap traps

Oligoryzomys 1 + 5 = 6

Abrothrix longi 11 + 3 = 5

the 5 + 3 are from

35
38
46
119



Nov. 24 meadow Cerro Runge 22 Sherman traps

6 Abrothrix longipilis

1 Alodon olivaceus

1 Oligoryzomys

Nov. 25

Peg 27 ⁶ large Shermans (one needs wire) 63
20 snags 60
+ 17 snags 56
179

AK 60 (30 snags, 30 large Shermans)

OPP 8 snags ^{snags} 15 + 15 Shermans 8 Shermans 10 snags

catch at 10 km S Comallo

Eligmodontia

Ab. xanthorhina

traps

26

37

> before dark 9pm

30

AK 1 xantho

1 Eligmo

1 Phylotis

Eligmo 10

Phylotis 2

Ab. xanth 3

30

AK sp 11

56

> am first check

Reithro 2

OPP 5 AK sp. 1 Reithro

28

AK ⁶ Eligmo 1 xantho 1 Reithro 1 wren

Peg 1 AK sp 1 Phylotis 2 Eligmo

final check

OPP 5 AK sp 1 Reithro

AK 1 xantho 1 Eligmo

Nov. 26

23

75 Shermans

156 traps

23

81 snags

no animals

47

156

Campo General Roca

Nov, 28

Pampa Linda

Rio Castaño Overo

Peg snap - 2 Abro longi
- 1 & shut

60 (30/30)

Human - 1 longi
- 1 olive
- 1 Geoxus
- 1 Auliscomys

Ab. longi 5
Ab. olive 3
Geoxus 2
Auliscomys 3

AK - 1 longi
- 1 olive
- 1 Geoxus
- 1 Auliscomys
1 wet longi

(28/28)

OPP - 1 longi
1 Auliscomys

21/21
+15 snags

Lago Mascaroti

OPP 27/27 54 olive 9

MF-S ~~30~~ 25/30 55 Oligoryz 1

AK 28/28 56 longipilis 1

165

Peg Oligoryzomy 1-
olive 2-

OPP longi 1-
olive 2-

AKP olive 5-

Dec. 2, 1993

near Hipodromo

Peg 27 Sheumans

OPP 21/21

42

AKP ~27

Eligmodontia 1

Aprothrix olivaceus 4 + 1 juv?

Oligoryzomys 4

Dec. 3, 1993

Hipodromo

26/26

27/27

21/21 + 5

OPP - 1 (xantho + 1 xantho) olive 1/63

snags

1 Eligno

AK + MBS / 5 dead *Oryzomys*

{ 3 dead (xantho) olive
1 live (xantho) olive

Dec. 4 Las Victorias

Peg 23/23

AK 28/28

OPP 25/32 ^{snags}

AKP - *Auliscomys*

(1 + 1?)

46

Oligoryzomys

(1 + 2)

56

Eligmodontia

1

25

Aprothrix longi

(2 + 2)

32

159

MFS

Eligno

3

OPP

Ab. Xantho

4

15 1 + 3

Aulisc

(1?)

(1 + 1?)

Ab longipilis

(5)

(4 + 2)

Oligoryzomys

(1)

(1 + 2)

A

Las Victorias

8+1+4	Ab xantho	13
7+4	Olig. longi	11
4+2	Elig	6
15+2+8	Ab longipilis	25
5+2	Aulisc	7
2	Reithrodon	2

159

+ 10 Sherman + 10 ^{snap} traps

Dec 4 am 2 Ab longi 1 Xantho

Dec 5 am

11 Reithrodon 2

111 ~~1111~~ Abrothrix longipilis 8

1111 Oligoryzomys 4

11 Aulisco 2

1111 Xantho 4

11 Eligmo 2

22

Dec 6 El Condor

total 48 160 traps

23 Ab. longipilis

7 Ab. xantho

13 Auliscomys

3 Oligoryzomys

2 Reithrodon

<u>xantho</u>	<u>olive</u>

(15)

(18)

in Peg's catalogue

69 specimens

Rheidae

U Ñandú Rhea americana Greater Rhea

A Choique Pterocnemia pennata Lesser Rhea

Threskiornithidae

A Bandurria baya Theristicus caudatus Buff-necked Ibis

Anhimidae

U Chajá Chauna torquata Southern Screamer

Anatidae

U + A Cisne Cuello Negro Cygnus melancoryphus Black-necked swan

Cathartidae

A Cóndor Vultur gryphus Andean Condor

A Jote Negro Coragyps atratus Black Vulture

Falconidae

A Chimango Milvago chimango Chimango Caracara

Jacaniidae

U Jacana Jacana jacana Wattled Jacana

Charadriidae

U + A Teru-Teru Común Vanellus chilensis Southern Lapwing

Laridae

U Gaviota capucho café Larus maculipennis Brown-hooded Gull

Psittacidae

A Loro Barranquero Cyanoliseus patagonus Burrowing Parrot

Strigidae

U Lechucita Pampa Athene cunicularia Burrowing Owl

Rhinocryptidae

Chucao Scelorchilus rubecula Chucao Tapaculo

Tyrannidae

p. 236

A

Fiofio silbador Elania albiceps

White-crested Elania

Steppe plants

Neneo Mulinum Spinosum pincushion shape

Colletia spinosissima white flowers

bunch grass

Cola de Pichi = Colapiche Nassauvia glomerulosa

Senecio

Forest

Nothofagus pumilio Lenga

" dombeyi Coihue

" antarctica Ñire

Retamo Dioslea juncea

Fabiana imbricata Palo Pichi

Scotch broom (introduced)

Notro Embothrium coccineum

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Journal

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Uruguay: Depto. Maldonado

Chile: Prov. Valdivia

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Las Flores, Depto. Maldonado, Uruguay

Nov. 21

We left Maldonado on Monday morning in the department vehicle from the Facultad de Ciencias. The party consists of Noel Cortinas and Federico Hoffman, both master students with Enrique Lessa; Leo Joseph, a post-doc in Enrique's lab, from Australia, Enrique, me, and Pito, the driver of the vehicle, who also cooks. We drove east from Maldonado along the coast to the small town of Las Flores. We are using the country house of Enrique's parents as our base.

After lunch we drove northeast to a site along the Arroyo El Renegado, 3 km E of Pan de Azúcar, Depto. Maldonado. Along the stream there was good riparian habitat, monte ribereño. We hiked with the traps across several cow pastures to get to the area farther downstream where we were going to set traps. Starting at an old ruined mill we set lines moving downstream.

Federico and I set two lines of Shermans with 20 traps each. One line was along the top of the hill along the edge of a grassy area in small rock outcroppings. The second line was along the hillside with traps in clumps of bushes. We also set 16 small snap traps and 2 large ones in the

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Nov. 21 Las Flores, Depto. Maldonado, Uruguay
rocks and bushes right near the mill.
~~Back at the bridge~~ Enrique and Noel
set a comparable number of traps right
along the river. Back at the bridge
where the vehicle was parked we set
the remaining ~~40~~ 40 shermans and
16 snap traps right next to the stream
in very moist areas. We also set 6 large
wire cage traps at the edge of the
stream.

Jito built a fire and cooked a
"proper" asado (done out in the country
over wood) for dinner. Around 11 pm we
went out to check the traplines.
Enrique and Noel caught one Oryzomys
in a snap trap along the stream, and a
larger Scapteromys in a sherman. We drove
back to the house at about 12:30 am, took
tissues from the Oryzomys, and went to
bed.

Nov. 22 Went out in the morning to bring in the traps
from Arroyo El Renegado. We caught three
Scapteromys and one Cavia in the traps along
the creek next to the bridge. Nothing in
the trap lines near the old mill. Went back
to process the animals. One of the Scapteromys
escaped from a wire cage trap, so in addition

St. Louis, August 10, 1892

Photos

11/20/87

15 EP Diving

16 View from boat from 200 ft. 8/10/85 - 200 ft. 8/10/85

15 "

16 Dxy + yctone type with dark orange

17 "

18 "

19 Ctenomys pearsoni

20

21



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Las Flores, Depto. Maldonado, Uruguay

Nov. 22

To the Oryzomys whose tissue we took the previous night we had 1 Cavia and 3 Scapteromys to take tissues from.

Noel barytyped the 3 Scapteromys. We are splitting the tissues so we each have a set. I am putting one of the Scapteromys in my catalogue, with a number also in the CA series since Enrique will keep the baryotype for Federico's project.

Enrique went along with Les and Tito in the afternoon to trap Ctenomys since Jim had said he would be interested in having some fluid preserved specimens for MVE. He caught 2 Ctenomys in the late afternoon.

At the house Federico had to leave to take the bus back to Maldonado for a meeting. He helped me set a few traps near the house before he left, and I finished setting 40 Shermans near the house. Later I carried another box of 40 across the field to set near the Arroyo Tarariras. There were 4 lines with 10 traps each, starting with one line on the hillside, one line in low shrubs at the base of the hill, one in thick vegetation near the stream, and one in grass and shrubs along a small path. Noel set 26 snap traps across the road above the house in shrubs. Noel and I set 19 snap traps in shrubs



Nov. 21

Nov. 22

Nov. 23

Oxymycterus

1

Scapteromys

1111 ^{one} escaped

Cavia

1

Ctenomys

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Nov. 22

behind the house and along the edge of the driveway, so we had 80 Shermans and 45 snap traps set.

We had dinner around 11:30pm and got to bed at 12:30 or 1:00 am.

Nov. 23

We caught 4 Oxymycterus in grass and shrubs ~~near~~ near the house, one in a snap along the driveway and 1 in a snap on the hillside above the house. Down by the arroyo we caught 1 Oxymycterus as well.

Enrique and Noel hantotyped 4 Oxymycterus. We are still trying to figure out if there are two forms of Oxymycterus here. Some seem to have more orange on the ventral side.

In the afternoon Enrique, Noel, and Federico went to set more traps near the bridge. We left the 40 Shermans there from the previous night, and they added the other 80 Shermans there, plus some lines of snap traps. I stayed at the house to continue skinning since we had several animals to do still.

Enrique left in the evening, because he had to take the bus back to Montevideo. At the house we finished skinning and got to bed a bit earlier since we needed to pull the traps early in the morning and get the vehicle back to Montevideo since another group was going in

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Las Flores, Depto. Maldonado, Uruguay

Nov. 23 the field.

Nov. 24 We got down to the bridge at about 6:30 am to bring in the traps. It took us until about 8:30. We had several animals in snap traps and many in Shermans as well,

1 Cavia

Oxymycterus

Scapteromys

Akodon

We drove back to the University, and processed animals the rest of the day and the next day.

Fundo San Martin, Comuna San José, Provincia Valdivia, Chile

Dec. 8 I arrived in Valdivia, Chile on Tuesday December 6. I flew from Montevideo to Santiago on Monday Dec. 5. On Tuesday morning Dr. Laura Walker met me at my hotel and we went together by taxi to the medical school, where Laura Walker and Angel Spotorno have their offices and lab space. We talked about our respective work, and I had a chance to see their setup. In the evening I flew to Valdivia and Milton Gallardo met me at the airport. We went immediately to the campus where Milton

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Fundo San Martin, Comuna San José, Provincia
Valdivia, Chile

Dec. 8 had liquid nitrogen waiting to replenish the tank that contained tissues from Uruguay. Then we stopped for tea at Milton's parents' house, and on to Milton's house.

On Wednesday we gathered equipment and made arrangements for the field trip on Thursday. Milton can't go because it is the end of the semester and he has to deal with exams.

On Thursday morning we met at the University. A university driver and teacher will take us to the reserve at San Martin, and pick us up again on Saturday at 11:00am.

We left Valdivia at about 9:45am, and arrived at the reserve at about 11:45am. The party includes Freddy Mondaca, who is Milton's assistant, + Vicente Gomez, who is a technician who started ^{working} recently at the university and is interested in learning about trapping. At the reserve Pedro Muñoz lives at the house permanently. He has a lot of experience trapping at the reserve.

We had lunch, then went out to spend the afternoon setting traps. We used a



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Fundo San Martin, Comuna San José, Provincia
Valdivia, Chile

Dec. 8 wheelbarrow to transport the traps along an overgrown trail through the forest.

We set along the edge of an enclosure that hasn't been used for four or five years. There are large patches of dead bamboo. We set along the edge where there was some green vegetation. We took the remaining Shermans to another area on a trail that starts from the drive closer to the house. Altogether we set 160 Shermans, plus 35 Museum Special snap traps.

Pedro Muñoz said at lunch that he has been catching very few animals on the lines he runs twice a month.

The reserve is run by the institute of ecology and evolution, which is Milton's department. The area has the only patch of native forest left in the region. Some of the species of trees present in the forest are as follows:

Notofagus glauca roble blanco

Notofagus obliqua roble pellín

Aristotelia chilensis maqui

Eucryphia cordifolia ulmo

Luma apiculata arrayán roja cinamon colored bark

Amomyrtus luma luma

Gevuina avellana avellano

Embothrium coccineum notro

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1994

JOURNAL

Fundo San Martin, comuna San José, Provincia Valdivia,
Chile

Dec. 8	<u>Persea lingue</u>	lingue
	<u>Laurelia sempervirens</u>	laurel
	<u>Laureliopsis philipiana</u>	tepa
	<u>Podocarpus saligna</u>	mañío de hojas largas
	Podocarpus ^{Saxe-Gothaea} <u>conspicua</u>	mañío de hojas cortas
	<u>Lomatia dentata</u>	avellanillo
	<u>Lomatia ferruginea</u>	romerillo
	<u>Drimys winteri</u>	canelo
	<u>Lomatia hirsuta</u>	radal
	<u>Amomyrtus meli</u>	meli
	<u>Myrceugenia exsucca</u>	temu patagua
	<u>Blepharocalyx cruckshankii</u>	temu
	<u>Caldcluvia paniculata</u>	tiaca
	<u>Weinmannia trichosperma</u>	tineo
	<u>Sophora microphylla</u>	pelú
	<u>Nothofagus betuloides</u>	coigue
	<u>Maytenus boaria</u>	mañén
	<u>Aextoxicon punctatum</u>	olivillo
27	<u>Pseudopanax laetevirens</u>	traumén
	bushes	
	<u>Berberis darwinii</u>	micay
	<u>Viola rubella</u>	violeta
	<u>Azara microphylla</u>	chínchen
	<u>Tepualia stipularis</u>	tepi
	<u>Crinodendron hectorianum</u>	chilco
	<u>Escallonia pulverulenta</u>	siete camisas

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Fundo San Martin

Chile

Dec. 8

Ribes magellanicum

zarzaparrilla

Rubus ulmifolius

murra

Rosa moschata

rosa mosqueta

Senna stipulacea

palo negro

Tristerix corymbosus

quintal

Rhamnus diffusus

murtilla negra

Fuchsia magellanica

chilco

Buddleja globosa

matiao

Acrisione denticulata

palpalén

Solanum crispum

tomatillo

Solanum cryptopodium

tomatillo

17

vines

Chusquea quila

quila bamboo

Cissus striata

voqui colorado

Muehlenbeckia hastulata

voqui negro

Sarmienta scandens

medallita

Mitraria coccinea

botellita

Campsidium valdivianum

pilpil-voqui

Philesia magellanica

coicofhue

Luzuriaga radicans

coral

Luzuriaga polyphylla

coral, palma

8

The list of trees, shrubs, and vines was provided by Pedro Muñoz by looking through a book Milton gave me to bring along to the field. Pedro determined for each plant whether it was present on the reserve. The book is



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fundo San Martin, comuna San José, Provincia

Valdivia, Chile

Dec. 8 Flora Silvestre de Chile, zona araucana, by
Adriana E. Hoffmann 1982 Fundacion Claudio Gay
258 pp.

After dinner we watched the swallows in the clearing next to the house. The swallows were replaced by bats as the light faded. We could hear at least three different kinds of frogs calling from the river.

Dec. 9 We got up at 8:00, had breakfast, and went to check the traps. We caught 4 Abrothrix olivaceus, three in Shermans and one, (a juvenile) in a snap trap. We processed the animals at the field station. We saved frozen liver and kidney for me, as well as liver in alcohol. In addition we saved a piece of liver to freeze for Claudia, one of Milton's students. They are accustomed to using cactus spines for the legs and tail of the study skins.

After lunch Pedro brought in some plant specimens that we looked up in the book of Chilean trees, shrubs, and vines. Later we went on a hike to look at trees on the way to one of Pedro's trap lines. We saw a hummingbird nest with two young in it.

We put more bait in the traps in the late afternoon, then had dinner. After dinner Pedro and I walked through the woods

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Valdivia, Chile

Dec. 9 and across a field to where we could see the river. We saw a couple of black-necked swans in the distance. Puma live near the low marshy areas and in the woods, but we didn't see any sign of them.

We set up a bat net but the bats were flying fairly high off the ground and we didn't catch any.

Dec. 10 Pedro made sopepillas for breakfast, then we went out to collect the traps. We caught another 4 Arothrix olivaceus.

The driver arrived with the car but Freddy decided to go ahead and process the animals there, which was good because then when we got back to Valdivia we just had to unload the equipment and specimens.



IEE

Pearsonomys lives in alcohol

5461 negro

5462 negro

5463 gray (ploma)

5464 gray

5465 gray

3132 (type 2 adult) = gray

5427 frozen live Pearsonomys
(negro?)

579 Dromicrops

send Milton Larry Marshall's paper 1979
Mercer (1983)

Hollin & Schilling (1981)

also Honyant 125 (RVA) paper
also Pearsonomys

Milton has Syst. Biol.

Evolution

J. Mammalogy

ordering Mol. Biol. Eval.

Relaciones filogenéticas

send to Milton:

info on equipment for sequencing

Miami 2 hours earlier than Santiago

M. F. Smith
1979-1996

Journal

1996

Argentina: Prov. Rio Negro

MF Smith
1996

JOURNAL

Bariloche, Rio Negro Province, Argentina

Jan. 17

Jim Patton and I left San Francisco on Jan. 16 at ~2:00pm. Our plane was an hour late taking off, so we only had 20 minutes to change planes in Miami. Arrived at Ezeiza airport in Buenos Aires and took a taxi to Jorge Newbery airport. Changed Peg's flight to 5:00pm so we would be on the same plane. Eileen Lacey met us at the airport in Bariloche. From my house in Pleasanton I had been in transit for about 29 hours. We checked into the Residencial Tito in Bariloche, had dinner, and went to bed.

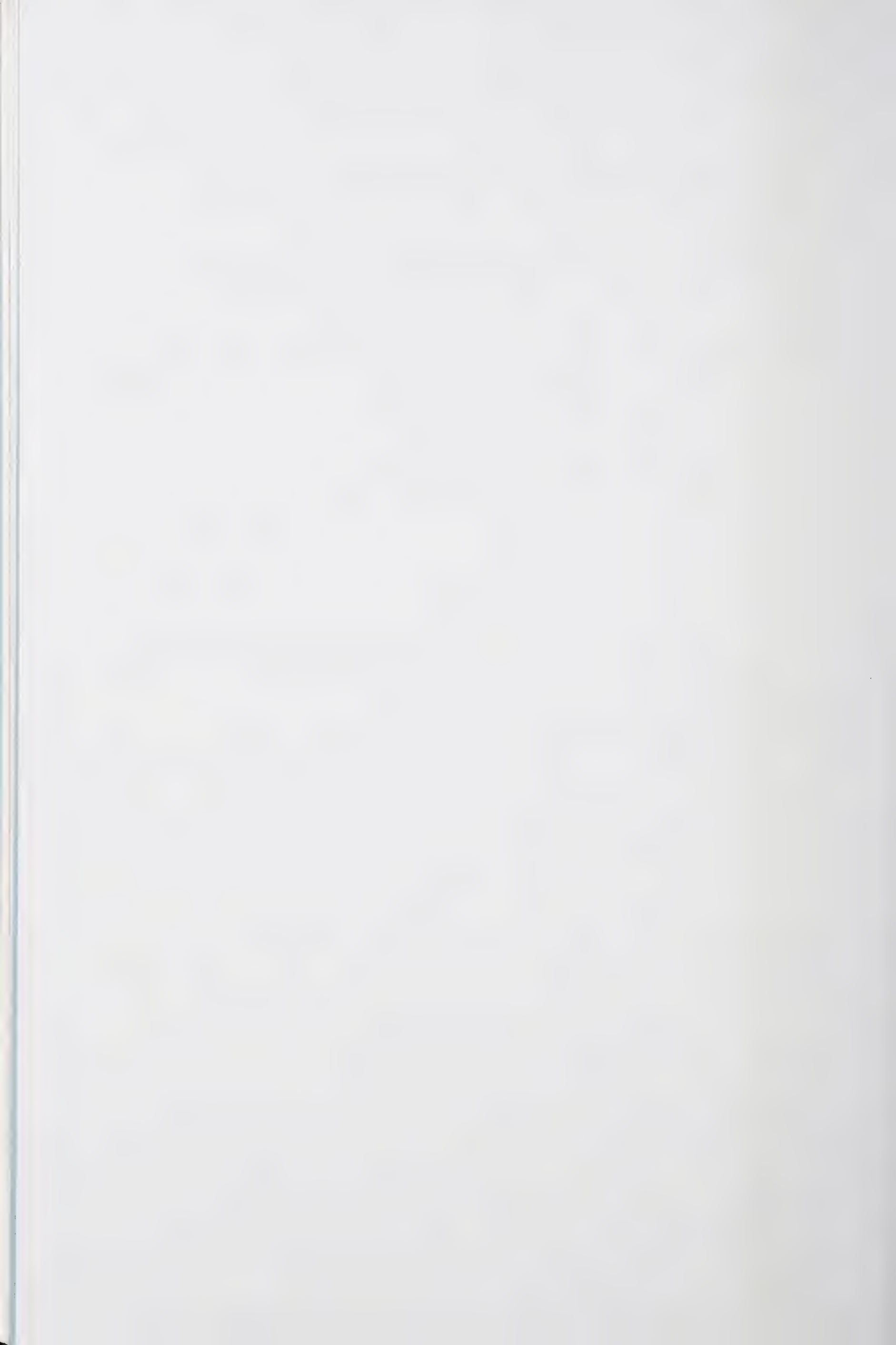
Jan. 18

We went to pick up the Pearson's van from the people at the bicycle shop across from Pearson's apartment. Bought groceries and met Tommy Christie at ~2:15pm. We drove to our first site off highway.

Emilio A loaded our gear into a wagon which he pulled by tractor up to the refugio while we hiked up. We set up the tents in an open meadow near the hut. Jim set out 20 Victor rat traps and caught 3 Abrothrix longipilis, 2 Chelomys macronyx, and 3 Aconaenys in beech forest along the stream with some bamboo and lots of downed logs. We are taking tissues in liquid nitrogen, making a few flat skins since we don't have any cotton, and making complete skeletons of the other animals.

Jan. 19

Tommy Christie led us up to a higher area where they had found a population of Ctenomys sociabilis last year. After showing us the site Tommy left to go back down to meet his family. Jim set Macabee traps and Eileen showed me how to set a noose to catch tucos by hand.



MF Smith

1996

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Jan. 19 We moved to a moister area nearby to try noosing in the afternoon, but none of us caught any tucos, although Eileen saw some and we could hear them calling. The traps back at the campsite caught:

5 Abrothrix longipilis

4 Chelomys macronyx

Jan. 20 1 ^{very dark long tailed animal - not sure what this is}
Jim and Eileen set off in the morning to hike back up to the higher elevation site to try for tucos. I stayed in camp to process the animals we caught there.

Abrothrix longipilis

Chelomys macronyx

Aconaenys

